

STRALINGSDETECTIE

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GEBIEDSMONITOREN





S.E. International, Inc. is een vertrouwde Amerikaanse fabrikant van stralingsdetectie-instrumenten onder het merk Radiation Alert®. Hun productassortiment omvat gebiedsmonitoren, draagbare meetinstrumenten en persoonlijke elektronische dosimeters – elk ontworpen voor nauwkeurige, realtime stralingsmonitoring in een breed scala aan toepassingen.

Product offering

AM-2x2
Stralingsveldmonitor



AM-71313
Stralingsveldmonitor



AM-7128
Stralingsveldmonitor



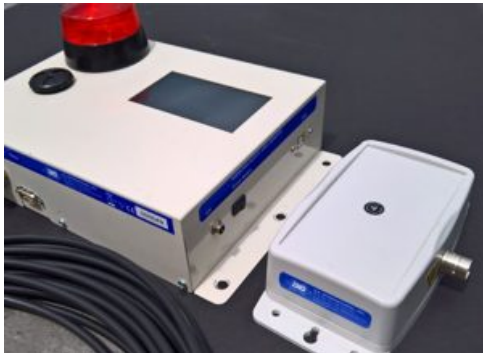
AM-1X1
Stralingsveldmonitor



AM-2x2 Stralingsveldmonitor



De Radiation Alert® AM-2X2 is een geavanceerde omgevingsmonitor die is ontworpen voor gebruiksgemak en betrouwbare prestaties. Met zijn slimme touchinterface, LED-display en externe scintillatiedetector is hij ideaal voor ruimte-, portaal- en bronbewaking in medische, onderzoeks- en industriële omgevingen. Met ingebouwde waarschuwingen, software voor bewaking op afstand en robuuste behuizingsopties is de AM-2X2 uw alles-in-één oplossing voor stralingsveiligheid.



Overzicht:

De Radiation Alert® Area Monitor is een van de meest gebruiksvriendelijke, allesomvattende, ultramoderne stralingscontrolesystemen op de markt. De gebruiksvriendelijke interface is een intelligent resistief aanraakscherm met een grote LED-uitlezing van vijf cijfers.

Kenmerken:

De AM-2X2 wordt geleverd met een externe natriumjodide scintillatiedetector. Cesiumjodidesondes zijn verkrijgbaar. Robuuste behuizingsopties voor wandmontage zijn beschikbaar voor drukbezochte ruimtes. Bewaak elke Radiation Alert® Area Monitor in uw netwerk met de gratis software. Inclusief door de gebruiker selecteerbare waarschuwingsindicatoren voor lage en hoge stralingsalarmniveaus en detectorstoringen. Stel e-mail- en sms-waarschuwingen in om onderweg alarmen te ontvangen. Alle instellingen worden intern opgeslagen, zelfs als de stroom is uitgeschakeld. Alle apparaten worden geleverd met een conformiteitscertificaat. NIST-bronkalibraties beschikbaar op aanvraag.

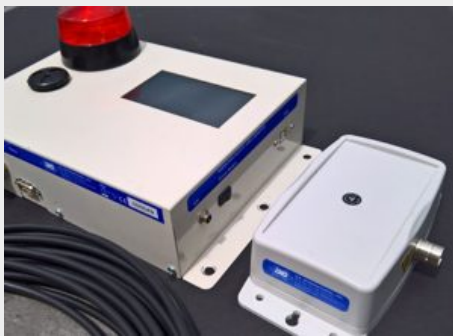
Toepassingen:

Ruimtebewaking voor ziekenhuizen, röntgenmachines, versnellers, laboratoria, enz. Portaalbewaking, zoals deuren en looppaden, Bronbewaking, Alarmen bij aanwezigheid van straling of afwezigheid van bronnen

AM-71313 Stralingsveldmonitor



Een geavanceerde, gebruiksvriendelijke monitor met een slim aanraakscherm en grote LED-aflezing. Kies tussen interne of externe detectoren en bewaak je hele netwerk met de gratis meegeleverde software. Stel aangepaste alarmen in, ontvang mobiele waarschuwingen en vertrouw op de veilige interne opslag van instellingen. Ideaal voor ziekenhuizen, laboratoria, versnellers en gecontroleerde toegangspunten. Inclusief conformiteitscertificaat; NIST-kalibratie beschikbaar op aanvraag.



Overzicht:

De Radiation Alert® Area Monitor is een van de meest gebruiksvriendelijke, allesomvattende, ultramoderne stralingscontrolesystemen op de markt. De gebruiksvriendelijke interface is een intelligent resistief aanraakscherm met een grote LED-uitlezing van vijf cijfers.

Kenmerken:

Wordt geleverd met een interne of externe detector en gratis software voor het monitoren van elke Radiation Alert® Area Monitor in uw netwerk. Inclusief door de gebruiker selecteerbare waarschuwingsindicatoren voor lage en hoge stralingsalarmniveaus en detectorstoringen. Stel e-mail- en sms-waarschuwingen in om onderweg alarmen te ontvangen. Alle instellingen worden intern opgeslagen, zelfs als de stroom is uitgeschakeld. Alle apparaten worden geleverd met een conformiteitscertificaat. NIST-bronkalibraties beschikbaar op aanvraag.

Interne of externe sonde-opties beschikbaar.

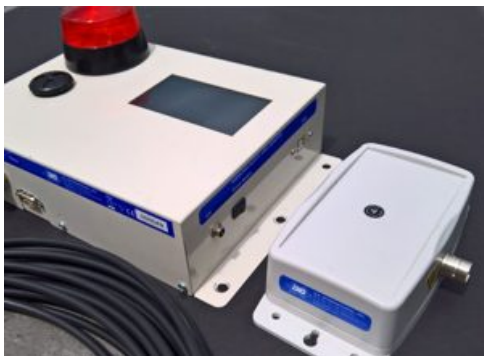
Toepassingen:

Ruimtebewaking voor ziekenhuizen, röntgenmachines, versnellers, laboratoria, enz. Portaalbewaking, zoals deuren en looppaden

AM-7128 Stralingsveldmonitor



De Radiation Alert® Area Monitor is een van de meest gebruiksvriendelijke, allesomvattende, ultramoderne stralingsruimtemonitors op de markt. De gebruiksvriendelijke interface is een intelligent resistief aanraakscherm met een grote LED-uitlezing van vijf cijfers.



Kenmerken:

Het product wordt geleverd met een interne of externe detector en gratis software voor het monitoren van elke Radiation Alert® Area Monitor in uw netwerk. Inclusief door de gebruiker selecteerbare waarschuwingsindicatoren voor lage en hoge stralingsalarmniveaus en detectorstoringen. Stel e-mail- en sms-waarschuwingen in om onderweg alarmen te ontvangen. Alle instellingen worden intern opgeslagen, zelfs als de stroom is uitgeschakeld. Alle apparaten worden geleverd met een conformiteitscertificaat. NIST-bronkalibraties beschikbaar op aanvraag.

Interne of externe sonde-opties beschikbaar

Toepassingen en gebruik:

Ruimtebewaking voor ziekenhuizen, röntgenmachines, versnellers, laboratoria, enz. Portaalbewaking, zoals deuren en looppaden

AM-1X1 Stralingsveldmonitor



De Radiation Alert® Area Monitor is een van de meest gebruiksvriendelijke, allesomvattende, ultramoderne stralingsruimtemonitors op de markt. De gebruiksvriendelijke interface is een intelligent resistief aanraakscherm met een grote LED-uitlezing van vijf cijfers.



Kenmerken:

De AM1X1 wordt geleverd met een interne of externe natriumjodide scintillatiedetector. Cesium-jodidesondes beschikbaar. Robuuste behuizingsopties voor wandmontage zijn beschikbaar voor drukbezochte ruimten. Bewaak elke Radiation Alert® Area Monitor in uw netwerk met de gratis software. Inclusief door de gebruiker selecteerbare waarschuwingsindicatoren voor lage en hoge stralingsalarmniveaus en detectorstoringen. Stel e-mail- en sms-waarschuwingen in om onderweg alarmen te ontvangen. Alle instellingen worden intern opgeslagen, zelfs als de stroom is uitgeschakeld. Alle apparaten worden geleverd met een conformiteitscertificaat. NIST-bronkalibraties beschikbaar op aanvraag.

Interne of externe sonde-opties beschikbaar.

Toepassingen:

Ruimtebewaking voor ziekenhuizen, röntgenmachines, versnellers, laboratoria, enz. Portaalbewaking, zoals deuren en looppaden, bronbewaking, alarmen bij aanwezigheid van straling of afwezigheid van bronnen



Ludlum Measurements, Inc. is een vertrouwde wereldwijde leverancier van instrumenten voor stralingsdetectie en -monitoring en biedt robuuste, nauwkeurige oplossingen voor personeelsveiligheid, milieubescherming en beveiligingsscreening. Sinds 1962 wordt hun apparatuur wereldwijd gebruikt in toepassingen variërend van kernenergie en noodhulp tot grensbewaking en monitoring van kritieke infrastructuur.

Product offering

Model 375
Ruimtemonitorregelaar



Model 375/1 digitale oppervlaktemonitor



Model 375/2 Digital Area Monitor - Ludlum



Model 375/4 Gamma Area Monitor - Ludlum



Model 375-10 Digital Area Monitor - Ludlum



Model 375-9 Digital Area Monitor - Ludlum



Model 375-Dual Digital Area Monitor - Ludlum



Model 375-20 Monitoring System



Model 375-30



Model 375/31H



Model 3276 - Area Monitor Controller



Model 3277/1 Alpha-Beta Frisker



Model 3277/1 with Desktop Mount (PN 4519-435) and Model 43-93 (PN 47-2556)

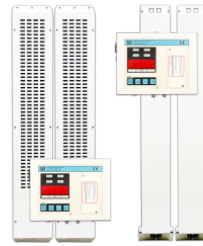
Model 375P-1000



Model 375P-2000



Model 375P-336 Series



**Model 240 Series
Alpha-Beta Floor and
Wall Monitor**



**Model 3002/FM Series
Alpha-Beta Floor
Monitor**



**Model 239-1F Series
Alpha-Beta Floor
Contamination
Monitor**



**Model 375P-336
Surface
Contamination
Monitor - Ludlum**



Model 375 Ruimtemonitorregelaar



Het Model 375 is een veelzijdige, compacte en zeer betaalbare digitale elektronische regelaar ontworpen voor het monitoren van straling in ruimtes. Het eenvoudige ontwerp is geschikt voor veel verschillende detectoren voor uiteenlopende toepassingen en is uitgerust met een lokale uitlezing en alarmen. Deze veelzijdige units kunnen ook worden aangesloten op een optionele hulpindicator/aankondiging voor het waarschuwen van personeel op afgelegen locaties.



Kenmerken:

- Betaalbare digitale controller
- Past zich aan een grote verscheidenheid aan detectoren aan
- Programmeerbare alarmen en meeteenheden
- Geschikt voor netwerken (optie Ethernet of webpagina-interface vereist)
- Batterijondersteuning

Overzicht:

Het model 375 is een digitale zonebewakingscontroller voor stralingsmeting of -detectie. Het eenvoudige ontwerp is geschikt voor veel verschillende detectoren, voor uiteenlopende toepassingen, en is uitgerust met een groot digitaal LED-display en alarmen. Dit veelzijdige instrument kan ook worden aangesloten op optionele hulpindicatoren/aanwijzers om personeel op afgelegen locaties te waarschuwen. Het gebruiksvriendelijke, digitale ontwerp vergemakkelijkt de instelling en bediening. Dit apparaat kan ook in een netwerk worden aangesloten op een centraal pc-station waar gegevens worden geregistreerd en alarmen worden doorgegeven.

Toepassingen en gebruik:

Dit betaalbare en flexibele systeem kan worden gebruikt in veel verschillende toepassingen en in de loop der jaren heeft Ludlum Measurements een breed scala aan detectoren, accessoires en opties ontwikkeld die kunnen worden opgenomen in een Model 375 systeemconfiguratie. Deze omvatten alarmen met afstandsindicatie, printers, relaisuitgangen, weerbestendige behuizingen, Ethernet netwerksoftware, industriële camera's en meer. Zie de link op het tabblad "Opties" voor meer informatie over de beschikbare opties.

Model 375/1 digitale oppervlaktemonitor



De model 375/1 digitale oppervlaktemonitor is ontworpen met het oog op zichtbaarheid en gebruiksgemak. De monitor heeft een interne 18 mm Csl scintillator met een gevoeligheid van ongeveer 120 cpm/R/hr.

De monitor heeft een behuizing voor wandmontage en een viercijferig LED-display dat je kunt aflezen vanaf 9 meter (20 voet) afstand.

De indicatoren waarschuwen met een alarm wanneer ze een lage straling (met geel), een hoge straling (met rood), een instrumentstoring (ook rood) of een lege batterij (met geel) detecteren.



Kenmerken:

- Betaalbare gebiedsmonitor
- Bereik: 0,1 tot 9999 $\mu\text{R/hr}$
- Compact, geïntegreerd ontwerp
- Lage achtergrondgevoeligheid
- Audio- en visuele alarmen
- Geschikt voor netwerken (optie Ethernet of webpagina-interface vereist)

Overzicht:

Het model 375/1 digitale wandmonitor is ontworpen voor zichtbaarheid en gebruiksgemak. Deze monitor bevat een interne 18 mm Csl-scintillator met een gevoeligheid van ongeveer 120 cpm per $\mu\text{R/hr}$. Hij heeft een behuizing voor wandmontage en een viercijferig LED-display dat leesbaar is vanaf 9 meter (30 voet) afstand. Indicatoren met achtergrondverlichting waarschuwen voor lage straling (geel), hoge straling (rood), instrumentstoring (rood) en lege batterij (geel), samen met een alarm. Een groen statuslampje geeft aan dat het instrument goed werkt.

De parameters zijn beschermd onder een kalibratiekap die toegang biedt tot het aanpassen van de kalibratieconstante, dode tijdcorrectie en alarmpuntparameters. De parameters worden opgeslagen in een niet-vluchtig geheugen (blijven ook behouden als de stroom is uitgeschakeld). Er is een logaritmische analoge uitgang met vijf decaden.

Model 375/2 Digital Area Monitor - Ludlum



The Model 375/2 Digital Wall-Mount Area Monitor is designed for visibility and ease of use. This monitor incorporates an internally-housed energy compensated GM detector with a range from 1 $\mu\text{Sv/h}$ to 10 mSv/h (0.1 mR/hr to 1 R/hr). It features a wall-mount chassis and a four-digit LED display that is readable from 9 meters (30 feet) away. Backlit indicators warn of low radiation (yellow), high radiation (red), instrument failure (red), and low battery (yellow), along with an alarm. A green status light indicates the instrument is functioning properly.



Features

- Affordable Area Monitor
- 1 $\mu\text{Sv/h}$ to 10 mSv/h (0.1 mR/hr to 1 R/hr)
- Integrated Design
- Battery Backup
- Networkable (Requires Ethernet or Webpage Interface Option)
- Audio & Visual Alarms

Overview:

The Model 375/2 Digital Wall-Mount Area Monitor is designed for visibility and ease of use. This monitor incorporates an internally-housed energy compensated GM detector with a range from 1 $\mu\text{Sv/h}$ to 10 mSv/h (0.1 mR/hr to 1 R/hr). It features a wall-mount chassis and a four-digit LED display that is readable from 9 meters (30 feet) away. Backlit indicators warn of low radiation (yellow), high radiation (red), instrument failure (red), and low battery (yellow), along with an alarm. A green status light indicates the instrument is functioning properly.

Parameters are protected under a calibration cover. Calibration is easily accomplished by moving the cal dipswitch to the right, and using the pushbuttons to increment or decrement the calibration constant, dead time correction, and alarm point parameters. Parameters are stored in non-volatile memory (retained even with power disconnected). A five-decade logarithmic analog output is provided. A battery backup provides 48 hours of additional use after the primary power is removed.

Model 375/4 Gamma Area Monitor - Ludlum



The Model 375/4 Digital Wall-Mount Area Monitor is designed for visibility and ease of use. This monitor incorporates an internally housed energy compensated GM detector with a range from 0.01 mSv/h to 100 mSv/h (1.0 mR/hr to 10 R/hr). It features a wall-mount chassis and a four-digit LED display that is readable from 9 meters (30 feet) away. Backlit indicators warn of low radiation (yellow), high radiation (red), instrument failure (red), and low battery (yellow), along with an audible alarm. A green status light indicates the instrument is functioning properly.



Features:

- Affordable Area Monitor
- 0.01 mSv/h to 100 mSv/h (1.0 mR/hr to 10 R/hr)
- Integrated Design
- Battery Backup
- Networkable (Requires Ethernet or Webpage Interface Option)
- Audio & Visual Alarms

Overview:

The Model 375/4 Digital Wall-Mount Area Monitor is designed for visibility and ease of use. This monitor incorporates an internally housed energy compensated GM detector with a range from 0.01 mSv/h to 100 mSv/h (1.0 mR/hr to 10 R/hr). It features a wall-mount chassis and a four-digit LED display that is readable from 9 meters (30 feet) away. Backlit indicators warn of low radiation (yellow), high radiation (red), instrument failure (red), and low battery (yellow), along with an audible alarm. A green status light indicates the instrument is functioning properly.

Parameters are protected under a calibration cover. Calibration is easily accomplished by moving the “cal” dipswitch to the right, and using the pushbuttons to increment or decrement the calibration constant, dead time correction, and alarm point parameters. Parameters are stored in non-volatile memory (retained even with power disconnected). A five-decade logarithmic analog output is provided. A battery backup provides 48 hours of additional use after the primary power is removed.

Model 375-10 Digital Area Monitor - Ludlum



This wall-mounted area monitor with an internal NaI scintillation detector is simple to set up, use, and calibrate. The four-digit LED display is readable from 9 meters (30 feet) away. User-configurable alarm setpoints are easy to configure. Parameters are protected under a calibration cover, and further protected by an eight-hour battery backup. They are also stored in non-volatile memory that retains the information even if primary power is disconnected. The controller supplies local alarms but can be connected to external alarms, strobes, camera, or other recording and monitoring devices, or put onto an Ethernet network, if desired.



Features:

- Range: 0.1 to 20 $\mu\text{Sv/hr}$ (1 to 2000 $\mu\text{R/hr}$)
- Encased Shielded Sodium Iodide (NaI) Detector
- User-Programmable Alarms
- Networkable (Requires Ethernet or Webpage Interface Option)
- 8-Hour Battery Backup

Overview:

This wall-mounted area monitor with an internal NaI scintillation detector is simple to set up, use, and calibrate. The four-digit LED display is readable from 9 meters (30 feet) away. User-configurable alarm setpoints are easy to configure. Parameters are protected under a calibration cover, and further protected by an eight-hour battery backup. They are also stored in non-volatile memory that retains the information even if primary power is disconnected. The controller supplies local alarms but can be connected to external alarms, strobes, camera, or other recording and monitoring devices, or put onto an Ethernet network, if desired. The Model 375-10 includes the Model 375 Ethernet hardware option. It is also preprogrammed to use the Model 375 Webpage & Service Software that is available separately (Part Number 1370-077).

An optional lead shield can be included with the detector for applications that need to prevent alarms from low-energy sources. (**Note:** The lead shield option should not be used in applications that need to monitor low-energy sources, such as medical isotopes.)

Model 375-9 Digital Area Monitor - Ludlum



The Model 375-9 Digital Wall-Mount Area Monitor is designed for visibility and ease of use. This monitor provides a fast response to pulsed fields by utilizing an external ion chamber covering any four consecutive decades between 1 $\mu\text{Sv/h}$ and 1000 mSv/h (0.1 mR/hr and 100 R/hr). It features a wall-mount chassis and a four-digit LED display that is readable from 9 meters (30 feet) away. Backlit indicators warn of low radiation (yellow), high radiation (red), instrument failure (red), and low battery (yellow), along with an audible alarm. A green status light indicates the instrument is functioning properly.



Features:

- Integrated Measurement System
- External Ion Chamber Detector
- User-Programmable Alarm Settings
- Audible & Visual Alarms
- Networkable (Requires Ethernet or Webpage Interface Option)

Overview:

The Model 375-9 Digital Wall-Mount Area Monitor is designed for visibility and ease of use. This monitor provides a fast response to pulsed fields by utilizing an external ion chamber covering any four consecutive decades between 1 $\mu\text{Sv/h}$ and 1000 mSv/h (0.1 mR/hr and 100 R/hr). It features a wall-mount chassis and a four-digit LED display that is readable from 9 meters (30 feet) away. Backlit indicators warn of low radiation (yellow), high radiation (red), instrument failure (red), and low battery (yellow), along with an audible alarm. A green status light indicates the instrument is functioning properly.

Parameters are protected under a calibration cover. Calibration is easily accomplished by moving the cal dipswitch to the right, and using the pushbuttons to increment or decrement the calibration constant and alarm point parameters. Parameters are stored in non-volatile memory (retained even with power disconnected). A five-decade logarithmic analog output is provided. A battery backup provides 48 hours of additional use after the primary power is removed.

Model 375-Dual Digital Area Monitor - Ludlum



The Model 375-Dual is a dual-channel digital area monitor controller based on the legacy version of the Model 375. It consists of two Model 375 controllers in one wall-mount chassis, each with its own detector connection. A common application is gamma and neutron monitoring: one controller monitors gamma radiation and the other monitors neutron radiation. This instrument may also be used to monitor radiation in two separate locations when used in conjunction with appropriate external detectors.



Features:

- Dual LED Digital Display
- Low and High Alarm Indicators
- Programmable Alarm Indicators
- Optional Remote
- Detector Fail Indicators
- Battery Backup
- Data Output/RS-232

Overview:

The Model 375-Dual is a dual-channel digital area monitor controller based on the legacy version of the Model 375. It consists of two Model 375 controllers in one wall-mount chassis, each with its own detector connection. A common application is gamma and neutron monitoring: one controller monitors gamma radiation and the other monitors neutron radiation. This instrument may also be used to monitor radiation in two separate locations when used in conjunction with appropriate external detectors.

Each controller features a four-digit LED display that is readable from 9 meters (30 feet) away. Backlit indicators on each instrument warn of low radiation alarm (yellow), high radiation alarm (red), instrument failure (red), and low battery (yellow). A green status light indicates the instrument is functioning properly. Calibration parameters are stored in non-volatile memory and protected under calibration covers on each controller.

Model 375-20 Monitoring System



Features:

- Affordable Digital Controller
- Weatherproof Encased-Shielded NaI Detectors
- Programmable Alarms
- Networkable (Requires Ethernet or Webpage Interface Option)
- Battery Backup



The Model 375-20 is a Digital Model 375 Controller coupled to two shielded 5.1 cm (2 in.) diameter by 5.1 cm (2 in.) thick NaI(Tl) scintillation detectors. The detectors are encased in weathertight enclosures suitable for the outdoor environment, but the Model 375 Controller is normally mounted to a wall indoors near an operator. This is a simple, cost-effective system, easy to operate and maintain. The controller supplies local alarms but can also be connected to external alarms or put onto an Ethernet network if desired. Additionally, it has a 48-hour battery backup to keep the system operational in the event power is lost.

Options:

This device can be complemented with a variety of optional features to suit different operational needs. Available options include enclosures for added protection, remote displays for convenient monitoring, and alarm annunciators to enhance safety and response time. Additionally, signal outputs can be integrated for connection with external systems, while software and networking options allow for advanced data management and remote access capabilities.



Interested in Model 375-20? Contact us for more details!

Order now

Model 375-30



The Model 375-30 pairs a digital controller with two rugged, weatherproof NaI(Tl) detectors for reliable outdoor gamma detection. Simple, cost-effective, and easy to maintain, it features local and remote alarm options, Ethernet connectivity, and 48-hour battery backup for continuous operation.



Features:

- Affordable Digital Controller
- Weatherproof Encased-Shielded NaI Detectors
- Programmable Alarms
- Networkable (Requires Ethernet or Webpage Interface Option)
- Battery Backup

Overview:

The Model 375-30 is a digital Model 375 Controller coupled to two shielded 7.6 cm (3 in.) diameter by 2.5 cm (1 in.) thick NaI(Tl) scintillation detectors. The detectors are encased in NEMA 4X rated weathertight enclosures suitable for the outdoor environment, but the 375 Controller is normally mounted to a wall indoors near an operator. This cost-effective system is simple, making it easy to operate and maintain. The controller supplies local alarms but can also be connected to external alarms or put onto an Ethernet network if desired. It additionally has a 48-hour battery backup to keep the system operational in the event power is lost.

Model 375/31H



The Model 375 is a compact, digital controller designed for flexible radiation monitoring across diverse environments. Paired with a high-performance neutron detector, it offers accurate thermal and fast neutron detection with excellent gamma rejection. With local and remote alarms, Ethernet connectivity, and optional real-time data logging and imaging, the Model 375 is an ideal solution for centralized, networked radiation safety.



Features:

- Perfect for Temporary Jobsites
- Easy Setup and Use
- Versatile Controller with Highly Visible Display
- User-Programmable Alarms
- Network and Relay Options
- 48-Hour Battery Backup
- CE Certified

Overview:

The Model 375 is a versatile, compact, and easy-to-use digital electronic controller designed for monitoring radiation in areas. Its simple design accommodates many different detectors to suit a wide variety of applications, and it is equipped with a local readout and alarms. These versatile units may also be connected to an optional auxiliary indicator/annunciator to alert personnel at remote locations. The user-friendly, digital design enhances setup and operation. The Model 375 units may also be networked to a central PC-based station where data are logged and alarms posted.

Applications & Uses:

This affordable and very flexible system has found its way into many applications resulting in a full complement of detectors, accessories, and options that include remote indicator alarms, printers, relay outputs, weather-proof enclosures, Ethernet networking software, industrial cameras, and more.

Sites requiring centralization of their data can link multiple 375 systems together via Ethernet and view them using a common web browser with the purchase of Ludlum's Webpage & Service Software. This program collects all data in real time, logs data, and annunciates any alarms. The system can also send intelligent email alerts to responsible personnel and capture a picture of whatever triggered an alarm if optional Ethernet cameras are employed.

Model 3276 - Area Monitor Controller



The Model 3276 is a lightweight, versatile radiation detection unit designed for both area monitoring and frisking applications. Compatible with alpha, beta, and gamma detectors, it features a large backlit display, audible alarms, and intuitive controls. Ideal for indoor use, the Model 3276 supports multiple measurement modes and units, offering precision and flexibility in a compact, rugged design.



Features:

- Uses Either an Internal or External Detector to Measure Alpha, Beta, or Gamma Radiation
- Versatile – Can Operate as an Area Monitor or a Frisker
- Simple Setup and Use
- User-Adjustable Alarms
- User-Programmable Units of Measurement, Either U.S. or SI Units
- Power: Standard Alkaline (4) “AA” Batteries or 9 Vdc Wall Mount Transformer

Overview:

The Model 3276 is a versatile instrument that can be used for multiple radiation detection or measurement purposes. It is used with either an internal or an external radiation detector to detect alpha, beta, or gamma radiation in applications such as frisking or area monitoring.

It features a large, backlit, easy-to-read LCD screen and audible alarms and is controlled using a simple four-button interface. The unit body is made of lightweight, rugged aluminum. It is not intended for outdoor use and should be protected from splashing water. The attached metal handle facilitates transportation between sites. The instrument can be wall-mounted for area monitoring applications or mounted to a stand for desktop applications such as frisking.

Applications & Uses:

The Model 3276 can measure radiation in count rate, exposure rate, exposure rate/dose, activity rate, integrated exposure/dose, time-averaged rates, and scaler counts. When used as a frisker, three modes of operation are available – RATE, MAX, and COUNT – which can be selected by pressing the MODE button. When used as an area monitor, only RATE mode is available by default. Measurements can be collected in two sets of units (primary and secondary) for RATE and MAX modes in cps, cpm, Bq, dpm, R/hr, or Sv/h units. The user can switch between the two sets of units by pressing the UNITS button. When used as a frisker with a scintillation detector, a sigma audio

mode can be enabled that allows the user to find small increases above the background radiation level.

Instrument setup can be done either through the front-panel controls or via the Lumin Calibration Kit (PN: 4498-1018). Power is supplied by either four alkaline “AA” batteries or a 9 Vdc wall mount transformer. The Model 3276 is shipped ready to use with batteries, a wall transformer, and a calibration certificate.

Model 3277/1 Alpha-Beta Frisker



Features:

- 7-inch Colour Touch-Screen Display Shows All Readings Simultaneously in a Large, Simple Layout
- Simple Setup and Use
- Can Be Used with Various Scintillation or Proportional Detectors
- Either Imperial or SI Units
- Rechargeable Backup Battery
- Automatic Background Subtraction During Measurements

Overview:

The Model 3277/1 is a wall-mount or desktop instrument that can be used for frisking personnel or objects for alpha and beta contamination. A large, colour touch-screen displays alpha and beta readings simultaneously, and dual tone click-audio enables the user to easily distinguish between alpha and beta contamination. Power is supplied by either an internal, rechargeable battery or a 100 – 240 Vdc wall transformer. Battery life is approximately 8 hours under normal usage.

**Features:**

- Checks for Surface Contamination Entering/Exiting Facilities
- Affordable Digital Controller
- Weatherproof Encased-Shielded Plastic Scintillator Detectors
- Programmable Alarms
- Networkable (Requires Ethernet or Webpage Interface Option)
- Battery Backup

Overview:

The Model 375P-1000 is a digital Model 375 Controller coupled to two shielded 7866 cm³ (480 in³) plastic scintillator detectors. The detectors are encased in weathertight enclosures suitable for the outdoor environment. The Model 375 Controller is not weatherproof and must be mounted either indoors or within an environmental enclosure (available separately, see Options). This cost-effective solution offers a simple system that is easy to operate and maintain.

The system continuously monitors background levels and will alert the user when the infrared sensors detect a contaminated object. Once the object is removed, the system will return to normal (background) monitoring.

The controller supplies local alarms, but can also be connected to external alarms or even put onto an Ethernet network if desired. In addition, a 24-hour battery backup keeps the system operational in the event power is lost.

Model 375P-2000



The Model 375P-2000 features a digital controller with four large, lead-shielded plastic scintillator detectors in rugged, weatherproof housings—ideal for monitoring objects entering or exiting facilities. With infrared-triggered detection, programmable alarms, network capability, and 24-hour battery backup, it delivers dependable, automated contamination control in a user-friendly, cost-effective system.



Features:

- Checks for Surface Contamination Entering/Exiting Facilities
- Affordable Digital Controller
- Weatherproof Encased-Shielded Plastic Scintillator Detectors
- Programmable Alarms
- Networkable (Requires Ethernet or Webpage Interface Option)
- Battery Backup

Overview:

The Model 375P-2000 is a digital Model 375 Controller coupled to four lead-shielded 7866 cm³ (480 in³) plastic scintillator detectors. The detectors are encased in weather-tight enclosures suitable for the outdoor environment. The Model 375P Controller is not weatherproof and must be mounted either indoors or within an environmental enclosure. This cost-effective solution offers a simple system that is easy to operate and maintain.

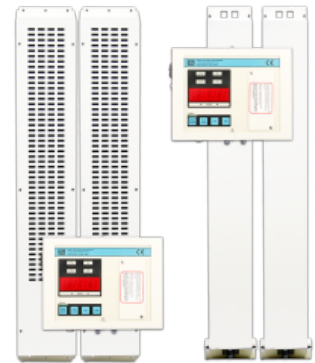
The system continuously monitors background levels and will alert the user when the infrared sensors detect a contaminated object. Once the object is removed, the system will return to normal (background) monitoring.

The controller supplies local alarms, but can also be connected to external alarms or put onto an Ethernet network if desired. In addition, a 24-hour battery backup keeps the system operational in the event power is lost.

Model 375P-336 Series



The Model 375P-336 Series combines a digital controller with two lead-shielded plastic scintillation detectors for reliable surface contamination monitoring. Available in both indoor (375P-336) and outdoor (375P-336-1L) configurations, these user-friendly, cost-effective systems offer local and remote alarms, Ethernet connectivity, and 24-hour battery backup for uninterrupted operation.



Features:

- Excellent Surface Contamination Screening Tool for Small Articles, Baggage, Packages, and Medical Waste
- Affordable Digital Controller
- 2 Large Plastic Scintillator Detectors
- Programmable Alarms
- Networkable (Requires Ethernet or Webpage Interface Option)
- Includes Check Source for Calibration
- 24-Hour Battery Backup

Overview:

The Model 375P-336 Series are monitoring systems that consist of a Model 375P digital controller coupled with two lead shielded 2753 cm³ (168 in³) plastic scintillation detectors. The Model 375P-336 is designed for indoor applications, while the Model 375P-336-1L has detectors housed in waterproof enclosures that can be mounted outdoors. The Model 375P controller is not weatherproof and must be mounted either indoors or within an environmental enclosure.

These simple and cost-effective solutions offer a system that is easy to operate and maintain. The controller supplies local alarms but can also be connected to external alarms or put onto an Ethernet network if desired. Each system has a 24-hour battery backup to keep it operational in the event power is lost.



Model 240 Series Alpha-Beta Floor and Wall Monitor

The Model 240 is a portable, high-efficiency alpha-beta contamination monitor designed for fast, accurate scanning of floors and walls. Featuring an array of low-background detectors, real-time alarms, and USB connectivity for streamlined data logging and reporting, it delivers precise, user-friendly performance—ideal for labs, cleanrooms, and decontamination zones.



Features:

- Quickly Surveys and Datalogs Large Areas with 173 cm (68 in.) Wide Path
- Hinged Array Can Be Folded for Easy Transportation
- 12 Alpha-Beta Detector Capability
- Can Use Either Gas Proportional or Scintillation Detectors
- Measures and Warns Operator About Excessive Speed

Overview:

The Model 240 Alpha-Beta Floor and Wall Monitor allows a user to quickly survey large areas for alpha-beta contamination. Compatible with either gas-proportional or scintillation detectors, the Model 240 cart comes in a floor-style only version, or a version that supports both floor and wall monitoring. Detector-to-surface spacing is adjustable and detectors are positioned for no “dead” zones when scanning. Gas proportional models come with a gas regulator, flowmeters, and gas lines, but a P-10 gas bottle is not included. The cart also provides two holders for spare detectors, to provide for replacement if a detector becomes damaged.

Utilizing an array of detectors instead of a single detector provides several advantages: 1) smaller detectors have lower backgrounds and thus lower minimum detectable activity (MDA); 2) smaller detectors allow the user to pinpoint the contamination; and 3) smaller detectors make it easier to maintain and replace fragile metallized polyester windows necessary for alpha detection.

The array of detectors is connected to an electronics box, which has a

USB connection to a laptop. The electronics has 12 separate detector boards, each with its own settable high voltage, lower and upper thresholds, and alpha-beta count channels. The laptop display makes it easy to view all 12 detectors simultaneously, and provides setup wizards to help with establishing operating points for the detectors.

The system initially measures radiation background from the detector array, allowing the operator to see net counts during scanning. While scanning, a rolling average is checked on all 24 channels (12 each, alpha and beta) every half-second, and a momentary audible and visual alarm activates if any alarm points are exceeded. Measurements are also automatically logged to a file for subsequent reports.



Model 3002/FM Series Alpha-Beta Floor Monitor

The Model 3002/FM Series Alpha-Beta Floor Monitors allow a user to quickly survey large areas for alpha-beta contamination. They combine the dependable Model 3002 Alpha-Beta Survey Meter with two alpha-beta scintillation detectors in configurations ideal for floor monitoring. The use of scintillation detectors creates an instrument that requires much less maintenance than traditional gas flow proportional detectors.



Features:

- Large Backlit and Auto-Ranging LCD
- Simultaneous Alpha-Beta Counting
- Gasless – Uses Scintillators and PMTs
- Dual-Tone Audio: Low-Pitch Beta Clicks and High-Pitch Alpha Beeps
- 4-Button Interface for Easy Operation
- Height Above Floor Easily Adjusted
- Rate, Max, and Count Modes



Model 239-1F Series Alpha-Beta Floor Contamination Monitor



Features:

- 594 cm² or 821 cm² Active Area Gas Proportional Detector
- Adjustable Detector Height
- Compatible with Multiple Survey Meters

Overview:

The Model 239-1F Floor Monitor is a gas proportional floor monitor detector mounted on a roll-around cart. The instrument features a flow system, quick-connects, a gas bottle mount, and a means to adjust the height of the detector from the floor for optimum performance. A nuclear counting gas bottle, gas regulator, and a survey instrument are required for the operation of the floor monitor.



Model 375P-336 Surface Contamination Monitor - Ludlum



Features:

- Excellent Surface Contamination Screening Tool for Small Articles, Baggage, Packages, and Medical Waste
- Affordable Digital Controller
- 2 Large Plastic Scintillator Detectors
- Programmable Alarms
- Networkable (Requires Ethernet or Webpage Interface Option)
- Includes Check Source for Calibration
- 24-Hour Battery Backup

Overview:

The Model 375P-336 Series are monitoring systems that consist of a Model 375P digital controller coupled with two lead shielded 2753 cm³ (168 in³) plastic scintillation detectors. The Model 375P-336 is designed for indoor applications, while the Model 375P-336-1L has detectors housed in waterproof enclosures that can be mounted outdoors. The Model 375P controller is not weatherproof and must be mounted either indoors or within an environmental enclosure (available separately).

These simple and cost-effective solutions offer a system that is easy to operate and maintain. The controller supplies local alarms but can also be connected to external alarms or put onto an Ethernet network if desired. Each system has a 24-hour battery backup to keep it operational in the event power is lost.

HANDMONITOREN





Ludlum Measurements, Inc. is een vertrouwde wereldwijde leverancier van instrumenten voor stralingsdetectie en -monitoring en biedt robuuste, nauwkeurige oplossingen voor personeelsveiligheid, milieubescherming en beveiligingsscreening. Sinds 1962 wordt hun apparatuur wereldwijd gebruikt in toepassingen variërend van kernenergie en noodhulp tot grensbewaking en monitoring van kritieke infrastructuur.

Product offering

**Model 26 - Frisker
with Geiger Mueller
Pancake**



**Model 26-1 Frisker
with integrated GM
Pancake - Ludlum**



**Model 26-3 - High
Range Frisker**



**Model 26S -
Integrated Scintillator
Frisker**



**Model 3000 Digital
Survey Meter -
Ludlum**



**Model 3001 Multi-
Detector Survey
Meter - Ludlum**



**Model 3002 Alpha-
Beta Digital Survey
Meter**



**Model 3003 Series
Multi-Detector
Ratemeter / SCA**



**Model 3014 Dual-
Detector Digital
Survey Meter / SCA**



**Model 9DP
Pressurized Ion
Chamber**



**Model 9DP-1
Pressurized Ion
Chamber**



**Model 9DP* Ambient
Dose Ion Chamber**



**Model 9DP-1*
Ambient Dose Ion
Chamber**



**Model 3-IS-1
Intrinsically Safe
Gamma Ratemeter**



**Model 3-IS
Intrinsically Safe
Survey Meter**



**Model 12-4 Neutron
Dose Survey Meter**



**Model 30-4 Digital
Neutron Survey Meter**



**Model 12-4-7 Neutron
Dose Survey Meter**



**Model 3007 Series
Neutron Dose Survey
Meter With Optional
Internal Gamma
Detector**



**Model 30-7 Series
Lightweight Digital
Neutron Survey Meter**



**Model 12 General
Purpose Survey Meter**



**Model 14C General
Purpose Survey Meter**



**Model 16 General
Purpose Survey Meter**



**Model 18 General
Purpose Survey Meter**



**Model 3 General
Purpose Survey Meter**



**Model 3A General
Purpose Survey Meter
with Alarm**



**Model 3-97 Gamma
Survey Meter**



**Model 195 with Model
43-132 High Range
Alpha Ion Chamber**



Model 3-98 125I & Alpha-Beta-Gamma Survey Meter



Model 194 Dose Equivalent Rate Meter



Model 2403 Pocket-Size Survey Meter



Model 2402 Pocket-Size Survey Meter with Alarm



Model 35 Vehicle-Mounted Digital Survey Meter



Model 30 Digital Survey Meter - Ludlum



Model 44-9 Pancake GM Detector - Ludlum



Model 3001-MERK response kit



Model 3001-2RK Emergency Response & NORM Kit



Model 2241-3RK2 Emergency Response Kit



Model 26-2 - Integrated Frisker with Timed Frisk



Model 70 Series - Ludlum



Model 3019 Digital Background Survey Meter - Ludlum



Model 133-6 GM Detector - Ludlum



Model 133-4 GM Detector - Ludlum



Model 133-2 GM Detector - Ludlum



**Model 44-3 NAL Low
Energy Gamma
Scintillator - Ludlum**



**Model 44-2 NAL
Gamma Scintillator -
Ludlum**



**Model 44-1 Beta
Scintillator - Ludlum**



**Model 44-38 Energy
Compensated GM
Detector - Ludlum**



**Model 44-9 Ambient
Dose Equivalent Filter
- Ludlum**



**Model 44-9 Exposure
Filter Kit - Ludlum**



**Model 44-7 Alpha
Beta Gamma Detector
- Ludlum**



**Model 43-92 Alpha
Scintillator - Ludlum**



**Model 43-65 Alpha
Scintillator - Ludlum**



**Model 43-5 Alpha
Scintillator - Ludlum**



**Model 9DP Ambient
Dose Ion Chamber
Survey Meter -
Ludlum**



**Model 9DP-1 Ion
Chamber Survey
Meter - Ludlum**



Model 26 - Frisker with Geiger Mueller Pancake



This Frisker with Geiger Mueller (GM) 26 is the simpler version of Ludlum's model 26-1.

Ludlum designed this device especially for frisking people and objects for alpha, beta and gamma contamination. This cable-less device consolidates the electronics and the detector into one ergonomic device. The frisker has a standard 15,51 cm² GM pancake detector and a large LCD display.



Features:

- Integrated, Lightweight Design Simplifies Frisking
- Protective Rubber Covering Enhances Ruggedness, Water Resistance, and Non-Slip Comfort
- Employs Standard 15.51 cm² GM Pancake Detector
- Ratemeter, MAX Hold, and Scaler Operating Modes
- Simple Two-Button Operation
- Count Rate and Scaler Alarms
- Automatic LCD Backlight Activation
- Wrist Cuff and Lanyard Included



Additional Services

To support optimal performance and compliance with regulatory standards, PEO offers the following services for this device:

> Service > Maintenance ✓ Calibration ✗ Leakage Tests

These services are available through PEO.

For service appointments or contract options, please contact your PEO representative.

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Additional Services

To support optimal performance and compliance with regulatory standards, PEO offers the following services for this device:

> Service > Maintenance ✓ Calibration ✗ Leakage Tests

These services are available through PEO.

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Model 26-1 Frisker with integrated GM Pancake - Ludlum



Overview:

The **Model 26-1 Integrated Frisker** offers fast, one-handed contamination screening with the convenience of an all-in-one design. Equipped with a GM pancake detector, intuitive controls, and a backlit LCD, it delivers reliable radiation measurements in multiple units and modes. Rugged, lightweight, and water-resistant

Ideal for both indoor and outdoor use.

Features:

- Integrated, Lightweight Ergonomic Design
- High-Impact Plastic with Water-Resistant Rubber Seals
- Employs Standard 15.51 cm² GM Pancake Detector
- Displays in mR/hr, μ Sv/h, dpm, Bq, cpm, or cps
- Dead-Time Correction (DTC) Allows Gamma Measurements Up to 500 mR/hr or Up to 1999 μ Sv/h
- Simple Three-Button Operation
- Count Rate, Exposure, Dose, and Counting Alarms
- Automatic Display Backlight
- Bright Red, Flashing Alarm LED
- Includes Wrist Strap, Detector Cover & Lanyard



Additional Services

To support optimal performance and compliance with regulatory standards, PEO offers the following services for this device:

- > Service
- > Maintenance
- ✓ Calibration
- ✗ Leakage Tests

These services are available through PEO.

For service appointments or contract options, please contact your PEO representative.

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Additional Services

To support optimal performance and compliance with regulatory standards, PEO offers the following services for this device:

- > Service
- > Maintenance
- ✓ Calibration
- ✗ Leakage Tests

These services are available through PEO.

For service appointments or contract options, please contact your PEO representative.

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Model 26-3 - High Range Frisker



The Ludlum Model 26-3 is a rugged, cable-free radiation detector combining a high-sensitivity GM pancake with a large auto-ranging LCD and intuitive one-handed operation. Ideal for detecting alpha/beta contamination and measuring gamma fields, it offers flexible units, three operating modes, and long battery life in a compact, water-resistant design



Features

- Integrated, Lightweight Ergonomic Design
- High-Impact Plastic with Water-Resistant Rubber Seals
- Employs Standard 15.51 cm² GM Pancake Detector
- Displays in mR/hr, μ Sv/h, dpm, Bq, cpm, or cps
- Dead-Time Correction (DTC) Allows Gamma Measurements Up to 1999 μ Sv/h (1000 mR/hr)
- Simple Three-Button Operation
- Count Rate, Dose/Exposure Rate, and Counting Alarms
- Automatic Display Backlight
- Bright Red Flashing ALARM LED
- Includes Wrist Strap, Clear Pancake Cover & Lanyard

Compact, Powerful, and Cable-Free

The Ludlum Model 26-3 delivers fast, reliable radiation detection in a rugged, water-resistant, and cable-free design—ideal for frisking people and inspecting objects with ease.

High-Performance Detection, Clear Readout

Equipped with a 15.51 cm² GM pancake, loud audible clicks, and a large auto-ranging LCD with backlight, it provides instant feedback. Switch between mR/hr, μ Sv/h, dpm, and Bq at the touch of a button.

Simple, One-Handed Use

Three intuitive modes—RATE, MAX, and COUNT—offer precise control for real-time monitoring, peak value capture, and timed surveys. All in one durable, ergonomic tool.





Versatile Measurement Options

Display readings in counts, activity, averaged rates, or accumulated dose—tailored to your needs. Add the optional Ambient Dose Filter for improved energy response in dose measurements.

Long Battery Life, Smart Configuration

Powered by just two AA batteries, the Model 26-3 runs for hundreds of hours. Settings can be locked or adjusted based on user or calibrator preference.

User-Friendly Features

A responsive backlight activates in low light, and the audible click can be muted for discreet use—perfect for both routine and sensitive surveys.

Additional Services

To support optimal performance and compliance with regulatory standards, PEO offers the following services for this device:

> Service > Maintenance ✓ Calibration ✗ Leakage Tests

These services are available through PEO.

For service appointments or contract options, please contact your PEO representative.

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Additional Services

To support optimal performance and compliance with regulatory standards, PEO offers the following services for this device:

> Service > Maintenance ✓ Calibration ✗ Leakage Tests

These services are available through PEO.

For service appointments or contract options, please contact your PEO representative.

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Model 26S - Integrated Scintillator Frisker



- Lightweight Design - Only 0.35 kg (0.75 lb)
- Employs 1 x 1 Equivalent Scintillator Detector
- Sigma Audio (or Click Audio Possible) & Alarm Beep
- Displays in mR/hr, μ Sv/h, dpm, Bq, cpm, or cps
- Simple Three-Button Operation
- Count Rate, Exposure, Dose, and Counting Alarms
- Automatic Display Backlight
- Bright Red Flashing ALARM LED



Model 3000 Digital Survey Meter - Ludlum



Overview:

The Ludlum Model 3000 is a lightweight, durable radiation survey meter designed for alpha, beta, and gamma detection using external probes. It features a large LCD, audible alarms, and three operating modes (RATE, MAX, COUNT), with dual-unit readout capability. Built for field use with a splash-resistant, high-impact plastic housing, it supports data logging (up to 1000 points) and calibration via front panel or optional Lumic kits. Supplied ready-to-use with batteries and calibration certificate.



Features:

- Large, Backlit, Easy-To-Read LCD Screen
- Auto-Ranging
- RATE, MAX, and COUNT Modes of Operation
- Splash-Resistant Construction for Outdoor Use
- All-Digital Calibration
- USB Port
- Lightweight Yet Ruggedly Built
- Simple 5-Button Interface

Options:

- **Calibration & Configuration Kits** - Software packages for setup, calibration, and detector optimization, each with required USB cables
- **Data Logging Solutions** - Includes data logger kit and retrofit handle for enabling or upgrading internal data logging
- **Wireless & Serial Connectivity** - Bluetooth® linker for mobile devices; RS-232 and TTL serial port options for external interfacing
- **Audio Kit** - Headphone jack with adjustable stereo/mono headset for audible alerts
- **Carrying Solutions** - Rugged transport case and adjustable shoulder strap (case modification required)





Additional Services

To support optimal performance and compliance with regulatory standards, PEO offers the following services for this device:

- ✓ Service
- ✓ Maintenance
- ✓ Calibration
- Leakage Tests

These services are available through PEO.

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Model 3001 Multi-Detector Survey Meter - Ludlum

The Model 3001 Multi-Detector Survey Meter (Ludlum) is an ergonomically-designed, versatile, lightweight instrument which can support up to 4 external detectors. Each detector with its own user parameters and set of calibration.



Choose from a wide range of probes for any application: [Ludlum probes](#)

Model 3001 Multi-Detector Survey Meter features:

- max, rate and count modes of operation
- datalogging and headphone options
- large backlit LCD for ease of reading
- USB port
- ruggedly built and lighter weight
- splash-resistant construction for outdoor use
- Geiger-Mueller (GM), scintillator or proportional detector

Read more about the Model 3001 Multi-Detector Survey Meter on the [Ludlum website](#)

Model 3002 Alpha-Beta Digital Survey Meter



The Model 3002 is a durable, lightweight instrument designed for alpha and beta radiation survey with an external detector. It features a large, easy-to-read LCD screen and audible alarms and is controlled using a simple five-button interface. The unit body is made of high-impact plastic and splash resistant construction allows the instrument to be used outdoors.

Three modes of operation are available – RATE, MAX, and COUNT – which can be selected by pressing the MODE button. Measurements can be collected in cps, cpm, Bq, or dpm units. Pressing the α - β button switches between alpha, beta, or alpha+beta measurements. When enabled with the optional Lumatic Data Logger Kit (see Options), data can be logged in any of the operational modes using the LOG button on the handle. Up to 1000 data points can be stored internally.

Instrument setup can be done either through the front-panel controls or via the Lumatic Calibration Kit (see Options). The Model 3002 is shipped ready to use with batteries and calibration certificate.

Features

- Large Backlit LCD for Ease of Reading
- Auto Ranging, Dual Tone Audio Clicks
- All-Digital Calibration
- Alpha, Beta, or Alpha + Beta Measurements
- Rate, Max, and Count Modes of Operation
- 4-Button Intuitive Interface for Easy Operation
- Lighter Weight Yet Ruggedly Built
- Splash-Resistant Construction for Outdoor Use



Model 3003 Series Multi-Detector Ratemeter / SCA



The Model 3003 is a durable, lightweight instrument designed for alpha, beta, gamma, or neutron radiation survey. It can support up to four external detectors, each with its own set of calibration and user parameters. The Model 3003i is a version that includes an internal GM or scintillation detector. The instrument features a large, easy-to-read LCD screen and audible alarms and is controlled using a simple seven-button interface. The unit body is made of high-impact plastic and splash resistant construction allows the instrument to be used outdoors.

Four modes of operation are available – RATE, MAX, INTG, and COUNT – which can be selected by pressing the MODE button. Measurements can be collected in two sets of units (primary and secondary) for RATE, MAX, and DOSE modes, unless alpha-beta detection is selected. The user can switch between the two sets of units by pressing the UNITS button. The DETECTOR button is used to switch between the active detector settings, indicated by the colored LEDs above the control buttons. When enabled with the LUMIC Data Logger Kit (see Options), data can be logged in any of the operational modes using the LOG button on the handle. Up to 1000 data points can be stored internally. The SCA ability allows a scintillator or proportional detector to be set up with an upper window, giving it higher sensitivity to a specific isotope or region. This instrument can be used with external alpha-beta detectors to display alpha, beta, or alpha+beta counts.

Instrument setup can be done either through the front-panel controls or via the LUMIC Calibration Kit (see Options). The Model 3003 is shipped ready to use with batteries and calibration certificate.

Features

- 4 Selectable & Configurable Detector Settings
- Single Channel Analyzer (SCA)
- Alpha, Beta, or Alpha+Beta Measurements
- 3003i: Internal Detector Option for Dose Measurements
- Rate, Max, Integrated Dose, and Count Modes
- 4-Button Intuitive Interface for Easy Operation
- 3-Button Handle Interface for One Handed Control
- Digital Calibration, Datalogging, Auto-Ranging, USB
- Bluetooth®, True RS-232, and Headphone Options
- Lightweight and Ruggedly Built
- Large Backlit LCD for Ease of Reading



- Alternative to Ludlum Models 18 and 2221



Model 3014 Dual-Detector Digital Survey Meter / SCA

The Ludlum Model 3014 is a durable, lightweight instrument with both an internal energy-compensated gamma detector and a connection for an external detector. It features a large, easy-to-read LCD screen and audible alarms and is controlled using a simple five-button interface. The unit body is made of high-impact plastic and splash-resistant construction allows the instrument to be used outdoors.

Four modes of operation are available – RATE, MAX, INTG, and COUNT – which can be selected by pressing the MODE button. Measurements can be collected in two sets of units (primary and secondary) for RATE and MAX modes. The user can switch between the two sets of units by pressing the UNITS button. Pressing the DETECTOR button toggles the display between the internal and external detector readings. When enabled with the Lumatic Data Logger Kit (see Options), data can be logged in any of the operational modes using the LOG button on the handle. Up to 1000 data points can be stored internally. The SCA ability allows a scintillator or proportional detector to be set up with an upper window, giving it higher sensitivity to a specific isotope or region. This instrument can be used with external alpha-beta detectors to display alpha, beta, or alpha+beta counts.

Instrument setup can be done either through the front-panel controls or via the Lumatic Calibration Kit (see Options). The Model 3014 is shipped ready to use with batteries and calibration certificate.

Features

- Internal Gamma Detector for Survey / Accumulated Dose
- Can Be Used with a Variety of External Detectors
- General Purpose Survey Meter
- Rate, Max, Integrated Dose, and Count Modes
- Alpha, Beta, or Alpha+Beta Capable
- Single Channel Analyzer (SCA) Capable
- Large Backlit LCD for Ease of Reading
- 4-Button Intuitive Interface for Easy Operation
- 1-Button Handle Interface for Data Logging
- Digital Calibration, Data Logging, Auto-Ranging, USB
- Bluetooth, True RS-232, and Headphone Options
- Alternative to Ludlum Models 14C and 2221



Model 9DP Pressurized Ion Chamber



Overview:

The Ludlum Model 9DP is a compact, hand-held instrument engineered for reliable radiation monitoring in field environments. Designed for professionals across medical, industrial, and emergency response sectors, it ensures accurate assessment of radiological conditions with minimal operational complexity.



Features:

- **Measurement Range:** Background to 50 mSv/h (5 R/hr)
- **Display Modes:** Real-time Exposure Rate & user-selectable Integrated or Peak Exposure Rate
- **Display:** Sunlight-readable color screen
- **Detection Performance:** Auto-zeroing and auto-ranging functionality
- **Power Supply:** Rechargeable battery pack for extended field operations
- **Alarms:** Integrated audio and visual alarms for threshold breaches
- **Quality-of-Life:** Data logging, USB connectivity, and free firmware updates via the manufacturer's website

Optional additions:

- Software and USB cable for Dimension instrument setup.
- Log real-time data to Excel; available with or without USB cable.
- Adds headphone jack to the instrument.
- Adjustable stereo/mono headphones.
- Rechargeable AA battery pack (8x NiMH).
- Alkaline AA battery pack (8x standard).
- 10 μ Ci Cs-137 plastic check source.
- Rugged, waterproof medium transport case.
- 1.8 m nylon shoulder strap (case modification required).
- Mini USB keyboard for instrument setup.





Additional Services

To support optimal performance and compliance with regulatory standards, PEO offers the following services for this device:

- > Service
- > Maintenance
- > Calibration
- > Leakage Tests

These services are available through PEO.

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Model 9DP-1 Pressurized Ion Chamber



The Model 9DP-1 is a digital, hand-held pressurized ion chamber that provides highly sensitive exposure measurements of gamma and x-ray radiation at energies above 25 keV and beta radiation at energies above 1 MeV. This meter is specially designed for radiography work where pulsed fields are being measured. It correctly integrates 50 ns pulses (and wider) that other systems typically miss or measure inaccurately. Another feature of this instrument is that the detector chamber is only pressurized to 2.5 atm (22 psig), thus avoiding all (USA) HAZMAT concerns for shipping and handling. However, this reduced pressure also reduces sensitivity, so the minimum “good” measurement point is 2 $\mu\text{Sv/h}$ (200 $\mu\text{R/hr}$).

Measurements and instrument status are displayed on a large 232K-color, backlit LCD screen. The screen displays the current exposure rate as well as simultaneously displaying either the integrated exposure rate or the peak exposure rate in Sv, R, Gy, or rem units. An additional mode, Pulsed Mode, locks the instrument in the highest measurement range in order to improve pulsed radiation response while sacrificing low radiation reading resolution.

The instrument is operated using the four push-buttons below the screen (ON/OFF, FUNCTION, AUDIO, ACK/RESET). In addition to the visual display, click audio proportional to the current exposure rate audibly indicates the exposure rate level. Two alarm levels can be set to alert the user whenever the pre-programmed level has been exceeded. Alarms are indicated on the display and by an audio tone. The instrument can also be configured for data logging. Logged data can either be stored in CSV format and written to a standard USB drive inserted in the instrument's USB port, or written directly to a Microsoft Excel spreadsheet by connecting the instrument to a computer running Ludlum's Model 9DP Logging Spreadsheet Software.

The Model 9DP parameter settings can be edited by connecting the instrument to a basic USB keyboard. Instrument setup and calibration can also be configured using the Ludlum Dimension Interface Kit, which includes the Dimension Configuration Manager Software and the required USB cable.

Features

- Range: 2 $\mu\text{Sv/h}$ to 500 mSv/h (200 $\mu\text{R/hr}$ to 50 R/hr)



- Special Design for Measuring Pulsed Fields
- Low Pressure Chamber is Non-Hazmat
- Shows Exposure Rate & Either Integrated Exposure or Peak Exposure Rate
- Pulsed Mode for Measuring Pulsed Radiation
- Sunlight Readable Color Display
- Auto-Zeroing & -Ranging
- Rechargeable Batteries
- Audio & Visual Alarms
- Data Logging
- USB Connectivity
- Free Firmware Updates Through Website

Model 9DP* Ambient Dose Ion Chamber



Overview:

The Model 9DP* is a digital, hand-held ion chamber for measuring ambient dose equivalent from gamma, x-ray, and high-energy beta radiation. It features ICRU-compliant dose readings, a color LCD display, audio-visual alarms, and supports data logging via USB or Excel. Settings and calibration are configurable via USB keyboard or software.



Features:

- Provides ICRU-Based Ambient Dose Equivalent Measurements
- Range: Background to 50 mSv/h (5 rem/h)
- Shows Dose Rate & Either Integrated Dose or Peak Dose Rate
- Ambient Equivalent Dose or Dose Rate is Flat within 20% from 40 keV to 1.3 MeV
- Sunlight Readable Color Display
- Auto-Zeroing & -Ranging
- Rechargeable Batteries
- Audio & Visual Alarms
- Data Logging
- USB Connectivity
- Free Firmware Updates Through Website

Optional additions:

- Calibration and setup kit with software and USB cable
- Real-time data logging to Excel
- Headphone jack add-on
- Stereo/mono headphones
- Rechargeable battery pack (8x AA NiMH)
- Alkaline battery pack (8x AA)
- 10 μ Ci Cs-137 check source
- Rugged, waterproof transport case
- Adjustable shoulder strap (requires case modification)
- USB keyboard for configuration





Additional Services

To support optimal performance and compliance with regulatory standards, PEO offers the following services for this device:

- > Service
- > Maintenance
- > Calibration
- > Leakage Tests

These services are available through PEO.

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Model 9DP-1* Ambient Dose Ion Chamber



The Model 9DP-1* is a digital, hand-held pressurized ion chamber that provides highly sensitive ambient dose equivalent measurements of gamma and x-ray radiation at energies above 25 keV and beta radiation at energies above 1 MeV. Ambient dose equivalent is defined as the dose equivalent readout that would be measured at a (human) tissue depth of 10 mm. The Model 9DP-1* measures and displays the ambient dose equivalent in accordance with the ICRU (International Commission on Radiation Units) 30 cm tissue equivalent sphere. This requires a special ion chamber that can provide a conversion of the (air kerma) exposure rate to provide the ambient dose and dose rate.

This meter is also specially designed to measure pulsed radiation fields, correctly integrating 50 ns pulses (and wider) that other systems typically miss or measure inaccurately. Another feature is a detector chamber that is only pressurized to 2.5 atm (22 psig), eliminating (USA) shipping and handling HAZMAT concerns. However, this reduced pressure also decreases sensitivity, reducing the minimum measurement point to 2 $\mu\text{Sv/h}$ (200 $\mu\text{R/hr}$).

Measurements and instrument status are displayed on a large 232K-color, backlit LCD screen. The screen displays the current dose rate as well as simultaneously displaying either the integrated dose rate or the peak dose rate in Sv, R, Gy, or rem units. An additional mode, Pulsed Mode, locks the instrument in the highest measurement range in order to improve pulsed radiation response while sacrificing low radiation reading resolution.

The instrument is operated using the four push-buttons below the screen (ON/OFF, FUNCTION, AUDIO, ACK/RESET). In addition to the visual display, click audio proportional to the current dose rate audibly indicates the dose rate level. Two alarm levels can be set to alert the user whenever the pre-programmed level has been exceeded. Alarms are indicated on the display and by an audio tone. The instrument can also be configured for data logging. Logged data can either be stored in CSV format and written to a standard USB drive inserted in the instrument's USB port, or written directly to a Microsoft Excel spreadsheet by connecting the instrument to a computer running Ludlum's Model 9DP Logging Spreadsheet Software.

The Model 9DP parameter settings can be edited by



connecting the instrument to a basic USB keyboard. Instrument setup and calibration can also be configured using the Ludlum Dimension Interface Kit, which includes the Dimension Configuration Manager Software and the required USB cable.

Features

- Provides ICRU-Based Ambient Dose Measurements
- Range: 2 $\mu\text{Sv/h}$ to 500 mSv/h (200 $\mu\text{R/hr}$ to 50 R/hr)
- Special Design for Measuring Pulsed Fields
- Low Pressure Chamber is Non-Hazmat
- Shows Dose Rate & Either Integrated Dose or Peak Dose Rate
- Ambient Equivalent Dose or Dose Rate Is Flat Within 30% from 60 keV to 1.3 MeV
- Sunlight Readable Color Display
- Auto-Zeroing & -Ranging
- Rechargeable Batteries
- Audio & Visual Alarms
- Data Logging
- USB Connectivity
- Free Firmware Updates Through Website



Model 3-IS-1 Intrinsically Safe Gamma Ratemeter

This intrinsically safe general purpose ratemeter is patterned after Ludlum's best-selling Model 3. It was designed and tested to USA standards for intrinsic safety, permitting it to be used in potentially explosive atmospheres.

This instrument includes an internally housed, energy compensated GM detector with a gamma detection range of 0.1 mR/hr to 1.0 R/hr. The Model 3 type instruments are well known for their accuracy and long-lasting dependability. The cast aluminum instrument housing, with its separate battery compartment and accompanying metal handle, offer an industrial robustness and quality that promote long-lasting protection and instrument life. The front panel controls include a rotary switch for selecting the four-decade range, instrument shut-off, and battery test, an audio on/off switch, a fast/slow response switch, and a count reset button.

Features

- Intrinsically Safe Gamma Survey Meter
- Rugged
- 4-Range Analog Ratemeter
- Built-in Energy Compensated GM Detector
- 0.1 mR/hr to 1.0 R/hr Detector Range





Model 3-IS Intrinsically Safe Survey Meter

This intrinsically safe general purpose ratemeter is patterned after Ludlum's best-selling Model 3. It was designed and tested to USA standards for intrinsic safety, permitting it to be used in potentially explosive atmospheres. The Model 3-IS can only be used with select detectors to sustain the intrinsic safety rating. Click the tab below to view compatible detectors.

Like the Model 3 before it, the 3-IS retains the well-deserved reputation for accuracy and long-lasting dependability. The cast aluminum instrument housing, with its separate battery compartment and accompanying metal handle, offer an industrial robustness and quality that promote long-lasting protection and instrument life. The front-panel controls include a rotary switch for selecting the four-decade range, instrument shut-off, and battery test, an audio on/off switch, a fast/slow response switch, and a count reset button. The analog meter comes in a variety of measurement ranges and units to support the external radiation detector selected.

A one meter (39 in.) straight type detector cable equipped with special connectors designed to prevent quick or accidental disconnection in the field is included in the price of the instrument.

Features

- Intrinsically Safe
- Rugged
- 4-Range Analog Ratemeter
- Supports GM & Scintillation Type Detectors



Model 12-4 Neutron Dose Survey Meter



The Model 12-4 is an industry standard neutron dose rate instrument that conforms to the RPG curve with a measuring range of 0 to 100 mSv/h (0 to 10,000 mrem/hr) from thermal to 12 MeV.

The detector is a 22.9 cm (9 in.) moderated ^3He tube with a gamma background rejection up to 100 mSv/h (10 R/hr). The ratemeter is a four-decade analog meter, designed with a cast aluminum instrument housing incorporating a separate battery compartment, and accompanying metal handle. This design delivers industrial robustness and quality, promoting long-lasting protection and instrument life.

The front-panel controls include a rotary switch for selecting the four-decade range, instrument shut-off, and battery test; an audio on/off switch; a fast/slow response switch; a count reset; and high-voltage test push-button. The Model 12-4 is a complete turn-key system and includes two "D" cell batteries.

Features

- Moderated Neutron Detector
- Range: 0 to 100 mSv/h (0 to 10,000 mrem/hr)
- Gamma Rejection up to 0.1 Sv/h (10 R/hr)
- Rugged
- 4-Range Analog Meter



Model 30-4 Digital Neutron Survey Meter



The Ludlum Model 30-4 joins the Model 30 digital display unit with a 22.9 cm (9 in.) REM ball containing a ^3He detector, thereby providing a significant weight reduction and more compact, maneuverable instrument for determining neutron dose rates. Three modes of operation – RATE, MAX, and COUNT – are available for the user. Measurements can be collected in two sets of units (primary and secondary) for RATE and MAX modes in cps, cpm, rem/hr, or Sv/h units. An internal switch is used to enable or disable the front-panel setup feature to protect desired settings from inadvertent modification. Setup is also available via software from Ludlum Measurements.

This instrument features a large, easily-readable LCD (liquid crystal display) that may be rotated for maximum ease of use for the operator. The connecting cable is threaded through the rugged carrying handle to simplify use. In addition the display unit may be detached from REM ball permitting the operator to position the detector and the display unit to best advantage within the limits of the cable length. Other features are an audio warning tone and easy, intuitive, user-friendly design. Splash-resistant construction allows the Model 30 to be used in outdoor environments. The instrument body is constructed of lightweight, durable, high-impact plastic.

Features

- Multi-Function Digital Display Unit
- Low-Weight Device Substitutes for Ratemeter
- Simple Switching Between Two Sets of Measurement Units
- Moderated Neutron Detector
- Range: 0 to 99.9 mSv/h (0 to 9.99 rem/hr)
- Display Unit Detaches for Greater Versatility



Model 12-4-7 Neutron Dose Survey Meter



The Model 12-4-7 is a neutron dose rate instrument that conforms to the RPG curve with a measuring range of 0 to 100 mSv/h (0 to 10,000 mrem/hr) from thermal to 12 MeV neutrons.

The detector is a 19.5 cm (7.7 in.), moderated ^3He tube with a gamma background rejection up to 100 mSv/h (10 R/hr). The ratemeter is a four-decade analog meter, designed with a cast aluminum instrument housing incorporating a separate battery compartment, and accompanying metal handle. This design delivers industrial robustness and quality, promoting long-lasting protection and instrument life.

The front-panel controls include a rotary switch for selecting the four-decade range, instrument shut-off, and battery test; an audio on/off switch; a fast/slow response switch; a count reset; and high-voltage test push-button. The Model 12-4-7 is a complete turn-key system and includes two "D" cell batteries.

Features

- Smaller, Lighter 7-inch Polyethylene Ball
- Moderated Neutron Detector
- Range: 0 to 100 mSv/h (0 to 10,000 mrem/hr)
- Gamma Rejection up to 0.1 Sv/h (10 R/hr)
- Rugged
- 4-Range Analog Meter
- Complete Turn-Key System





Model 3007 Series Neutron Dose Survey Meter With Optional Internal Gamma Detector

The Model 3007 Series of neutron dose survey meters combines a handheld digital meter with a 19.5 cm (7.7 in.) diameter REM ball containing a ^3He detector to measure and monitor neutron radiation. Several versions of these instruments are available. The Model 3007 and Model 3007B use similar detectors that only differ by the boron concentration in the internal borated layer. The Model 3007 has a lower boron concentration and offers a typical sensitivity of 10 cpm per $\mu\text{Sv/h}$ (100 cpm per mrem/hr), but tends to overrespond in the 5 keV range. The Model 3007B has a higher boron concentration and a lower sensitivity, typically 4.5 cpm per $\mu\text{Sv/h}$ (45 cpm per mrem/hr), but does not have the same overresponse issue. The Model 3007-1 has a higher pressure detector that offers greater sensitivity, typically 17 cpm per $\mu\text{Sv/h}$ (170 cpm per mrem/hr), but falls under shipping regulations due to the pressure. “i” versions include an internal gamma detector in the meter for exposure or dose measurements.

Each instrument features a large, easy-to-read LCD screen and is controlled using a simple five-button interface. The meter body is made of high-impact plastic, and splash resistant construction allows the instruments to be used outdoors.

Four modes of operation are available – RATE, MAX, COUNT, and DOSE – which can be selected by pressing the MODE button. Measurements can be collected in two sets of units (primary and secondary) for RATE and MAX modes in cps, cpm, Bq, dpm, mR/hr, mrem/hr, or $\mu\text{Sv/h}$ units. The user can switch between two sets of units by pressing the UNITS button. Audible alarms can be set in all modes of operation. When enabled with the optional Lumic Data Logger Kit, data can be logged in any of the operational modes using the LOG button on the handle. Up to 1000 data points can be stored internally.

Instrument setup can be done either through the front-panel controls or via the Lumic Calibration Kit. The Model 3007 is shipped ready to use with batteries and a calibration certificate.

Features

- Small & Light 19.5 cm (7.7 in.) REM Ball
- Moderated Neutron Detector



- Range: 0 – 100 mSv/h (0 – 10,000 mrem/hr)
- Gamma Rejection up to 0.1 Sv/h (10 R/hr)
- “i” Versions: Internal Gamma Detector Option for Exposure/Dose Measurements
- Rate, Max, Integrated Dose & Count Modes
- Digital Calibration, Data Logging, Auto-Ranging, USB
- Large, Backlit, Easy-to-Read LCD Screen
- Simple 5-Button Interface



Model 30-7 Series Lightweight Digital Neutron Survey Meter

The Model 30-7 Series are handheld, lightweight neutron dose detectors that join the Model 30 digital meter with a 19.5 cm (7.7 in) diameter REM ball containing a ^3He detector. The instruments use similar detectors that only differ by the boron concentration in the internal borated layer. The Model 30-7 detector has a lower boron concentration and offers a greater sensitivity, typically 10 cpm per $\mu\text{Sv/h}$ (100 cpm per mrem/hr), but tends to overrespond in the 5 keV range. The Model 30-7B detector has a higher boron concentration and a lower sensitivity, typically 4.5 cpm per $\mu\text{Sv/h}$ (45 cpm per mrem/hr), but does not have the same overresponse issue as the Model 30-7.

Three modes of operation – RATE, MAX, and COUNT – are available for the user. Measurements can be collected in two sets of units (primary and secondary) for RATE and MAX modes in cps, cpm, rem/hr, or Sv/h units. An internal switch is used to enable or disable the front-panel setup feature to protect desired settings from inadvertent modification. Setup is also available via the Lumic calibration software (see Options tab).

Each instrument features a large, easily-readable LCD (liquid crystal display) that may be rotated for maximum ease of use by the operator. The connecting cable is threaded through the rugged carrying handle to simplify use. In addition, the display unit may be detached from REM ball, permitting the operator to position the detector and the display unit to best advantage within the limits of the cable length. Other features are an audio warning tone and easy, intuitive, user-friendly design. Splash-resistant construction allows the Model 30-7 Series to be used in outdoor environments. The display body is constructed of lightweight, durable, high-impact plastic.

Features

- Small & Light 19.5 cm (7.7 in.) REM Ball
- Moderated Neutron Detector
- Digital Display with Adjustable Viewing Angle
- Range: 0 to 99.9 mSv/h (0 to 9.99 rem/hr)
- Low-Weight Unit Provides Same Readings as Standard REM-ball from Bare AmBe and Lower Energies
- Includes Adjustable Shoulder Strap



Model 12 General Purpose Survey Meter



This general purpose, handheld analog ratemeter supports GM, proportional, and scintillation type detectors. The analog meter face comes in a variety of options to support the measurement units and ranges for the optional external detector selected.

The cast aluminum instrument housing with its separate battery compartment and accompanying metal handle offer an industrial robustness and quality that promote long lasting protection and instrument life. The front panel controls include a rotary switch for selecting the four-decade range, instrument shut-off and battery test, an audio on/off switch, a fast/slow response switch, a high voltage display button, and a count reset button.

A one-meter (39 in.) straight type detector cable with "C" style connector and batteries are included in the price of the instrument.

Features

- Low Price
- Rugged
- 4-Range Analog Ratemeter
- Supports GM, Proportional, and Scintillation Type Detectors
- Greater Than 2000 Hour Battery Life



Model 14C General Purpose Survey Meter



This general purpose, handheld analog ratemeter supports operating two separate radiation detectors. A switch allows the user to select between the internally mounted GM detector with an exposure range of 0 - 20 mSv/h (0 - 2000 mR/hr) or an external GM or scintillator detector of choice (see table below).

The cast aluminum instrument housing, with its separate battery compartment and accompanying metal handle, offer an industrial robustness and quality that promote long-lasting protection and instrument life. The front-panel controls include a rotary switch for selecting the five-decade range and instrument shut-off, an audio on/off switch, a fast/slow response switch, a high voltage display button, and a battery test button.

The analog meter face comes in a variety of options to support the measurement units and ranges for the additional external detector selected. A one meter (39 in.) straight type detector cable with "C" style connector is included in the price of the instrument.

Features

- Low Price
- Rugged
- 5-Range Analog Ratemeter
- Operates Two Detectors
 - Built-in Internal GM Detector (0 to 2000 mR/hr)
 - External GM or Scintillation Detector





Model 16 General Purpose Survey Meter

This general purpose, handheld analog ratemeter supports GM, proportional, and scintillation type detectors. The cast aluminum instrument housing, with its separate battery compartment and accompanying metal handle, offers an industrial robustness and quality that promotes long-lasting protection and instrument life.

The front-panel controls include a rotary switch for selecting the four-decade range, instrument shut-off, and battery test, an audio on/off switch, a fast/slow response switch, a high-voltage display button, a count reset button, and a window in/out switch. The analog meter face comes in a variety of options to support the measurement units and ranges for the additional external detector selected.

A one-meter (39 in.) long straight type detector cable with “C” style connector is included in the price of the instrument.

Features

- Low Price
- Rugged
- 4-Range Analog Ratemeter
- Supports GM, Proportional, & Scintillation Type Detectors
- Adjustable Window



Model 18 General Purpose Survey Meter



This general purpose, handheld analog ratemeter supports GM, proportional, and scintillation type detectors. The analog meter face comes in a variety of options to support the measurement units and ranges for the optional external detector(s) selected.

The unique capability this instrument offers is its ability to select between three different detector setups. This feature facilitates switching detectors in the field without requiring calibration adjustments. In addition to the three-position detector selector switch, the front panel also provides the user with the capability to switch the operating window between an open (gross) channel and a pre-selected narrower setting when targeting specific energies. Other front-panel controls include a rotary switch for selecting the four-decade range, instrument shut-off and battery test, an audio on/off switch, a fast/slow response switch, a high-voltage display button, and a count reset button.

The cast aluminum instrument housing with its separate battery compartment and accompanying metal handle offer an industrial robustness and quality that promote long-lasting protection and instrument life. A one meter (39 in.) straight type detector cable with "C" style connector is included in the price of the instrument.

Features

- Low Price
- Rugged
- 4-Range Analog Ratemeter
- Supports GM, Proportional & Scintillation Type Detectors
- Adjustable Window
- 3-Detector, High-Voltage Setups



Model 3 General Purpose Survey Meter



The Model 3 is Ludlum's best selling, general purpose, handheld, analog ratemeter known for accuracy and long-lasting dependability. It comes in a variety of measurement ranges and units to support the external radiation detector selected.

The cast aluminum instrument housing with a separate battery compartment and metal handle offer an industrial robustness and quality that promote long-lasting protection and instrument life. The front-panel controls include a rotary switch for selecting the four-decade range, instrument shut-off, and battery test, an audio on/off switch, a fast/slow response switch, and a count reset button.

A one meter (39 in.) straight type detector cable with "C" style connector is included in the price of the instrument.

Features

- Low price
- Rugged
- 4-Range Analog Ratemeter
- Supports GM & Scintillation Type Detectors
- Greater than 2000 Hour Battery Life





Model 3A General Purpose Survey Meter with Alarm

The Model 3A is identical to Ludlum's best selling, general purpose, Model 3 handheld analog ratemeter with the addition of an audible alarm. It is likewise known for its accuracy and long-lasting dependability. The cast aluminum instrument housing with its separate battery compartment and accompanying metal handle offer an industrial robustness and quality that promote long-lasting protection and instrument life.

The front-panel controls include a rotary switch for selecting the four-decade range, instrument shut-off, and battery test, an audio on/off switch, a fast/slow response switch, and a count reset button. The analog meter comes in a variety of measurement ranges and units to support the external radiation detector selected.

A one meter (39 in.) long straight type detector cable with "C" style connector is included in the price of the instrument..

Features

- Low Price
- Rugged
- 4-Range Analog Ratemeter
- Alarms
- Supports GM & Scintillation Type Detectors





Model 3-97 Gamma Survey Meter

The Model 3-97 provides a great solution for locating potential contamination and then accurately measuring the exposure rate, or for simply measuring the ambient exposure levels over a wide range. The instrument is equipped with an internal 2.5 x 2.5 cm (1 x 1 in.) NaI detector that is highly sensitive to gamma, with readings in the μR range between 0 to 3000 $\mu\text{R/hr}$ (0 to 3 mR/hr). The instrument is additionally equipped with an external Model 44-38 energy-compensated GM to extend the detection range up to 200 mR/hr. The ratemeter is Ludlum's venerable Model 3-series, which employs a robust cast aluminum instrument housing with a separate battery compartment for long-lasting protection and instrument life. The front-panel controls include a rotary switch for selecting the 4-decade range, instrument shut-off and battery test, audio on/off switch, fast/slow response switch, count reset button, and internal/external detector switch. The Model 3-97 is a complete turn-key system with the detector cable and two "D" cell batteries.

Features

- Wide Range from $\mu\text{R/hr}$ to 200 mR/hr
- High-Sensitivity Gamma
- Rugged
- 4-Range Analog Ratemeter





Model 195 with Model 43-132 High Range Alpha Ion Chamber

The high-range alpha ion chamber system uses the Model 43-132 Ion Chamber and the Model 195 readout unit. The Model 43-132 is designed to enhance alpha detection, although it is also sensitive to beta-gamma radiation. The Model 195 has a rugged cast aluminum instrument housing with sealed battery compartment that offer an industrial robustness and quality that promote long-lasting protection and instrument life.





Model 3-98 ^{125}I & Alpha-Beta-Gamma Survey Meter

Ludlum's Model 3-98 is uniquely configured to optimize measurements for ^{125}I and any alpha, beta, or gamma contamination. The dual detector design allows the user to select the detector for the task at hand. The internally-housed GM pancake detector can be used to measure gamma. This detector's face can be exposed via a slide located along the bottom of the instrument, thus making it sensitive to alpha and beta as well. The external NaI detector, Ludlum Model 44-3, is optimized for low-energy gamma from ^{125}I .

The ratemeter is Ludlum's venerable Model 3-series, which employs a robust, cast aluminum instrument housing with a separate battery compartment for long-lasting protection and long instrument life. The front-panel controls include a rotary switch for selecting the 4-decade range, instrument shut-off and battery test, audio on/off switch, fast/slow response switch, count reset button, and internal/external detector switch. Also included are a standard 1-meter (39 inch) cable with series "C" connector (others available), detector clip, and two "D" cell batteries.

Features

- Dual Purpose Detection
- ^{125}I & Alpha-Beta-Gamma Contamination
- 4-Range Analog Ratemeter
- Rugged Construction
- 0 to 500 kcpm
- User-Selectable Internal and External Detectors



Model 194 Dose Equivalent Rate Meter



Features

- Accurate (Energy-Flat) Ambient Dose Equivalent Rate Measurements
- Eliminates High False Readings of Typical microR Meters
- Rugged Scintillator, Will Not Leak
- Low Range: Background to 19.99 $\mu\text{Sv/h}$ (1999 $\mu\text{rem/hr}$)
- High Range: 1 to 1999 $\mu\text{Sv/h}$ (0.1 to 199.9 mrem/hr)
- Improved Replacement for Bicron Microrem
- “/E” Extended Version Has Low-Energy, 3.2 mg/cm^2 Window for Operation Below 50 keV



Model 2403 Pocket-Size Survey Meter



The Model 2403 is a pocket-size ratemeter with an analog display that may be connected to a number of detectors. This unit supports mR/hr exposure and cpm count-rate measurements. The metallic case and convenient size make this a nice tool to for a wide variety of applications.

Features

- Pocket-Size Ratemeter
- Accommodates a Variety of Detectors
- Metallic Case
- Easy to Use



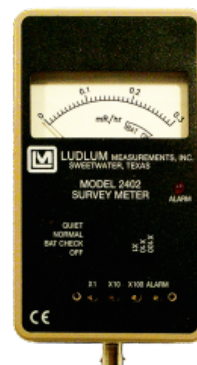


Model 2402 Pocket-Size Survey Meter with Alarm

The Model 2402 is a pocket-sized ratemeter with an analog display that may be connected to a number of available detectors. This unit supports mR/hr exposure and cpm count-rate measurements. It also has a built-in audio and visual alarm. The metallic case and convenient size make this a nice tool to for a wide variety of applications.

Features

- Pocket-Size Ratemeter
- Accommodates a Variety of Detectors
- Audio & Visual Alarm
- Metallic Case
- Easy to Use





Model 35 Vehicle-Mounted Digital Survey Meter

The Ludlum Model 35 is a versatile, lightweight, vehicle mounted instrument with an external detector used for alpha, beta, or gamma radiation survey. It remains unobtrusive until an alarm is reached. At that point the monitor can be quickly removed from the mount for closer inspection. Three modes of operation – RATE, MAX, and COUNT – are available for the user. Measurements can be collected in two sets of units (primary and secondary) for RATE and MAX modes in cps, cpm, Bq, dpm, R/hr, rem, or Sv/h units. The user can switch between two sets of chosen units by simply pressing the Units button.

An internal switch is used to enable or disable the front-panel setup feature to protect desired settings from inadvertent modification. Setup is also available via software available from Ludlum Measurements.

This instrument features a large, easily-readable LCD (liquid crystal display), an audio warning tone, and easy, intuitive, user-friendly design. Splash-resistant construction allows the Model 35 to be used outdoors. The instrument body is made of lightweight, durable, high-impact plastic. The Model 35 is shipped ready to use with batteries and calibration certificate.

Features

- Includes Rotatable Ball-Mount Stand
- Optional Windshield and Under-Dash Mounts Available
- Powered by Connected Vehicle or Internal Batteries
- Large Backlit Auto Ranging LCD with Adjustable Viewing Angle
- Simple Green, Yellow, and Red Status Lights
- 3-Button Intuitive Interface for Easy Operation
- USB Port and All-Digital Calibration



Model 30 Digital Survey Meter - Ludlum



The Ludlum Model 30 is a versatile, lightweight, instrument used with an external detector for alpha, beta, or gamma radiation survey. Three modes of operation – RATE, MAX, and COUNT – are available for the user. Measurements can be collected in two sets of units (primary and secondary) for RATE and MAX modes in cps, cpm, Bq, dpm, R/hr, rem, or Sv/h units.



The user can switch between two sets of chosen units by simply pressing the Units button. An internal switch is used to enable or disable the front-panel setup feature to protect desired settings from inadvertent modification. Setup is also available via software available from Ludlum Measurements.

This instrument features a large, easily-readable LCD (liquid crystal display), a piercing audio warning tone, and easy, intuitive, user-friendly design. Splash-resistant construction allows the Model 30 to be used outdoors. The unit body is made of lightweight, durable, high-impact plastic. The Model 30 is shipped ready to use with batteries and calibration certificate.

Model 30 Digital Survey Meter features

- attaches to detector allowing one-handed operation
- large backlit auto-ranging LCD with adjustable viewing angle
- simple green, yellow, and red status indicators
- 3-button intuitive interface for easy operation
- USB port and all-digital calibration
- available in stretch scope configuration

View compatible probes [here](#)

Download the datasheets below or contact our product specialist.

Model 44-9 Pancake GM Detector - Ludlum



The Model 44-9 Pancake GM Detector (Ludlum) is proven to be the most popular radiation detector used throughout the world. This detector is sensitive to alpha, beta and gamma radiation. The Model 44-9 Pancake GM Detector is enclosed within a rough metal cage but sized and shaped very convenient. It is ideal for checking contamination on people and objects.



Model 44-9 Pancake GM Detector features:

- window area: 15.51 cm² (2.4 in²) active, 12.26 cm² (1.9 in²) open
- pancake-type, halogen-quenched GM detector
- efficiency (4 π): 5% for 14C; 22% for 90Sr/90Y; 19% for 99Tc; 32% for 32P; 15% for 239Pu, $\leq$ 1% for 99mTc; 0.2% for 125I
- sensitivity (137Cs gamma): 3300 cpm/mR/hr
- weight: 0,5 kg

Read more about the Model 44-9 Pancake GM Detector on the [Ludlum website](#)

Model 3001-MERK response kit



Medical Environment Response Kit

This response kit is an ideal tool for any nuclear medicine department or emergency department. It offers a detector complement optimized for medical isotopes and includes personal radiation monitoring. The kit fits securely in a foam-padded, padlockable, rugged storage and transport case, and will easily meet the radiation requirements of the emergency response plan.



The Model 3001-MERK Medical Environment Response Kit includes:

- Model 3001 Multi-Detector Digital Survey Meter
- Model 44-9, Alpha-Beta-Gamma Detector
- Model 44-2, Gamma Scintillator Detector
- Model 44-142, Beta Scintillator Detector
- Model 25 or Model 25-1 Personal Radiation Monitor
- 1 μCi (^{137}Cs) check source
- 1 m (39 in.) long detector cable
- Carrying case for easy transportation of the kit to the affected site

Ludlum offers several versions of pre-packaged response kits suitable for a wide variety of applications. If you desire more or different detectors, or other changes to our standard kits, please contact us regarding a customized kit.

Model 3001-2RK Emergency Response & NORM Kit



The Model 3001-2RK is composed of two dependable, high-quality detectors matched with the versatile Model 3001 survey meter and packaged in a rugged transport and storage case.

The Model 3001 can be configured with up to four detector setups, enabling the user to quickly exchange detectors in the field. Once the detector system is configured, a user can select a detector's parameters with a press of a button and choose the desired measurement units and operation mode.

The kit includes the Model 44-9 alpha-beta-gamma detector for general survey measurements and the Model 44-2 high-sensitivity gamma detector for locating the source of high readings. The case is cushioned with dense foam padding, and has a large, comfortable grip, a manual pressure relief valve, and padlockable hasps. The kit also includes a 1 μCi (^{137}Cs) check source, check source holder, cable, and batteries, making this kit ready-to-go for emergency response or NORM applications.

Ludlum offers several versions of pre-packaged response kits suitable for a wide variety of applications. If you desire more or different detectors, or other changes to our standard kits, please contact us regarding a customized kit.

Features

- Ready-to-Go Kit in Rugged Case
- Ergonomic Survey Meter with 4 Selectable and Configurable Detector Settings
- Measures Alpha, Beta, and Gamma Contamination
- Convenient In-Field Detector Switching
- For Emergency Response or NORM Applications
- Includes:
 - Model 3001 Multi-Detector Survey Meter
 - Model 44-9 Alpha-Beta-Gamma Detector
 - Model 44-2 High Energy Gamma Detector
 - Check Source, Cable, Batteries
 - Transport & Storage Case with dense foam padding



Model 2241-3RK2 Emergency Response Kit



All of the basic radiation measurement tools likely required to rapidly react to a radiological emergency are conveniently assembled in the Model 2241-3RK2 Response Kit. The digital, auto-ranging Model 2241-3 scaler-ratemeter stores 4 parameter setups to allow for quick detector changes in the field.

The Model 2241-3 has a backlit LCD and user-adjustable alert and alarm for both scaler and ratemeter modes. The rugged transport and storage case is foam-padded with custom cutouts for the instruments and gives air- and watertight, corrosion-proof, and padlockable protection. A check source with mountable holder is included to ensure instruments are functioning properly.

Ludlum offers several versions of pre-packaged response kits suitable for a wide variety of applications. If you desire more or different detectors, or other changes to our standard kits, please contact us regarding a customized kit.

Features

- Ready-to-Go Response Kit in Rugged Case
- Digital Scaler-Ratemeter with User-Adjustable Audible & Visual Alarms
- Includes Check Source and Cable
- Measures Alpha, Beta, and Gamma Contamination
- Convenient In-Field Detector Switching



Model 26-2 - Integrated Frisker with Timed Frisk



- Integrated, Lightweight Design
- High-Impact Plastic with Water-Resistant Rubber Seals
- GM Pancake Detector
- Ratemeter, Peak, and Timed Frisk Operating Modes
- Simple Two-Button Operation
- Automatic LCD Backlight
- Comfortable Non-Slip Grip, Includes Lanyard & Adjustable Wrist Strap
- Daylight-Visible Green & Red Status LEDs





Spectroscopic Personal Radiation Detector

The Ludlum Model 70 Series are high resolution CZT-type detectors that deliver unparalleled performance in express radionuclide identification and radiation dose assessment from low to moderate-high levels.

Each instrument is accompanied by GalaxRayWiz software, a powerful tool which communicates with the device, analyzes gamma-spectra and dose-rate time profiles accumulation of 14 hours. Collected data can be easily transferred via USB or Wi-Fi.

Continuous dose rate monitoring and recording enables the user to be instantly informed about radiation exposure and to carefully analyze radiation dose risks by exploring the dose rate recorded charts.



Features

- Handheld Gamma Spectrometer
- Mobile Phone Sized
- Three Button Operation
- Radiation Dose Assessment
- Dose Rate Time Profile Recording
- Express Nuclide Identification
- One Thousand Gamma-Spectra Storage
- Temperature Stabilized
- Complies with ANSI 42.48-2018

	Detector Dimensions
	CZT detector: 5 x 76
an detector	CZT detector: 5 x 76 Neutron detector: 15 x 40 mm (Li-6)
	CZT detector: 16 x 1
ron detector	CZT detector: 16 x 1 Neutron detector: 15 x 40 mm (Li-6)



https://youtu.be/_ZSXcECQeho



SCAN TO VIEW
VIDEO

Energy Range: 0.03 to 3.0 MeV, 1024 Ch

Energy Resolution: 1.8 to 2.5% at 662 keV

Gamma Dose Rate: within 30% accuracy per ANSI N42-48 from 0.5 μ Sv/h to 3 mSv/h (5 μ R/hr to 300 mR/hr)

Gamma Efficiency: 70/1, 70/2: 0.06 cps per μ R/hr 70/3, 70/4: 0.18 cps per μ R/hr

Neutron Sensitivity: $\approx$ 2.4 cps/nv

Nuclide ID Over-Range Dose Rate: 0.5 mSv/hr

Preset Time: 86,400 s

Display: LCD 7.1 cm (2.8 in.), 240 x 320 pixels, backlight

Alarms: Audio ($\sim$ 85 dB), audio jack, vibrator, LED operations, 3-button keyboard

Data Storage: Up to 1000 spectra and up to 24 hours of dose rate time records

Data Transfer: via USB and Wi-Fi

Data Throughput: $\approx$ 70,000 cps

Power: Lithium-ion rechargeable battery, 3.7 V 5200 mAh

Battery Life: With Wi-Fi on and back-light on: Up to 14 hours with Wi-Fi off and back-light on: Up to 26 hours

Charge Time: 4 - 5 hours, with battery indicator on display

Temperature Range: -10 to 50 $^{\circ}$ C (-4 to 122 $^{\circ}$ F). Relative humidity $\leq$ 95%.

Environmental Rating: IP63 with rubber sleeve

Dimensions: (L x W x H) 100 x 75 x 48 mm (4 x 3 x 1.9 in.)

Weight: 220 g (0.5 lb) with battery

Model 3019 Digital Background Survey Meter - Ludlum



The Model 3019 Digital Background Survey Meter (Ludlum) is a device with an internal scintillation detector used for gamma radiation survey for background to 500 $\mu\text{Sv/hr}$.



Model 3019 Digital Background Survey Meter features:

- internal CsI, scintillator with 175 cpm/ $\mu\text{R/hr}$ sensitivity detector
- count, rate and max
- 4-button intuitive interface for easy operation
- ruggedly built and light weight
- splash-resistant construction
- bright LED and sigma audio simplifies searching
- large backlit LCD for ease of reading
- USB port
- autoranging

Read more about the Model 3019 Digital Background Survey Meter on the [Ludlum website](#)

Model 133-6 GM Detector - Ludlum



The Model 133-6 GM Detector (Ludlum) is a gamma survey detector (GM) that can be used with any scaler instrument, ratemeter or area monitor that delivers the appropriate amount of voltage (see datasheet below) with an input sensitivity of $30 \pm 10\text{mV}$.



Model 133-6 GM Detector features:

- waterproof (optional)
- halogen quenched
- stainless steel tube
- range: $40 \mu\text{Sv/h}$ to 10Sv/h
- energy compensated GM

Read more about the Model 133-6 GM Detector on the [Ludlum Website](#)

Model 133-4 GM Detector - Ludlum



The Model 133-4 GM Detector (Ludlum) is a gamma survey detector (GM) that can be used with any scaler instrument, portable ratemeter or area monitor that delivers the appropriate amount of voltage (see datasheet below) with an input sensitivity of $30 \pm 10\text{mV}$.



Model 133-4 GM Detector features:

- waterproof (optional)
- halogen quenched
- stainless steel tube
- range: 0.01 mSv/h to 100 mSv/h
- energy compensated GM

Read more about the Model 133-4 GM Detector on the [Ludlum Website](#)

Model 133-2 GM Detector - Ludlum



The Model 133-2 GM Detector (Ludlum) is a gamma survey detector (GM) that can be used with any scaler instrument, portable ratemeter or area monitor that delivers the appropriate amount of voltage (see datasheet below) with an input sensitivity of $30 \pm 10\text{mV}$.



Model 133-2 GM Detector features:

- stainless steel tube
- energy compensated GM
- waterproof (optional)
- halogen quenched
- range: $1 \mu\text{Sv/h}$ – 10mSv/h

Read more about the Model 133-2 GM Detector on the [Ludlum Website](#)



Model 44-3 NAL Low Energy Gamma Scintillator - Ludlum

The Model 44-3 NAL Low Energy Gamma Scintillator (Ludlum) is a detector for 125I and low energy gamma radiation survey.



Model 44-3 NAL Low Energy Gamma Scintillator features:

- entry window: 18.4 mg/cm²
- weight: 0.5 kg
- sensitivity: 675 cpm/μR/hr (125I)
- window area: 5 cm² open and active
- efficiency (4π): 33.5%–125I (based on 129I efficiency of 18%)
- detector: scintillator, 2.5 cm diameter x 1 mm thick NaI(Tl) crystal
- photomultiplier tube: 3.8 cm diameter

Read more about the Model 44-3 NAL Low Energy Gamma Scintillator on the [Ludlum website](#)

Model 44-2 NAL Gamma Scintillator - Ludlum



The Model 44-2 NAL Gamma Scintillator (Ludlum) is a detector for low-level, wide-energy gamma radiation survey.



Model 44-2 NAL Gamma Scintillator features:

- detector: scintillator, 2.5 x 2.5 cm (1 x 1 in.) (Dia x L) thick NaI
- efficiency: 125I for 7%; 57Co for 10%; 137Cs for 3%; 60Co for 3%
- sensitivity: 175 cpm/ μ R/hr (137Cs gamma)
- background: 1800 cpm
- photomultiplier tube: 2.86 cm (1.125 in.) diameter, magnetically shielded

Read more about the Model 44-2 NAL Gamma Scintillator on the [Ludlum website](#)

Model 44-1 Beta Scintillator - Ludlum



The Model 44-1 Beta Scintillator (Ludlum) is a detector for beta radiation survey.



Model 44-1 Beta Scintillator features:

- window area: 9.7 cm² active and open
- efficiency (4 π): 7% for ¹⁴C
- background (10 μ R/hr): 100 cpm
- weight: 0.3 kg
- detector type: 4.3 x 0.03 cm (1.7 x 0.01 in.) (Dia x L) plastic scintillator

Read more about the Model 44-1 Beta Scintillator on the [Ludlum website](#)

Model 44-38 Energy Compensated GM Detector - Ludlum



The Model 44-38 Energy Compensated GM Detector (Ludlum) is a device for beta and gamma radiation survey.



Model 44-38 Energy Compensated GM Detector features:

- weight: 0.5 kg
- detector: 30–45 mg/cm² stainless steel wall halogen quenched GM
- sensitivity: 1200 cpm per mR/hr (137Cs gamma) with window closed
- range: $\pm 10\%$ up to 50 mR/hr without DTC and up to 500 mR/hr with DTC
- background: 25 cpm open, 20 cpm closed
- gamma energy response (window closed): within 20% of 137Cs (662 keV) from 60 keV to 1.3 MeV

Read more about the Model 44-38 Energy Compensated GM Detector on the [Ludlum website](#)



Model 44-9 Ambient Dose Equivalent Filter - Ludlum

The Model 44-9 Ambient Dose Equivalent Filter (Ludlum) is an expansion on the Model 44-9 Pancake GM Detector. It is an energy compensation filter that flattens the energy response to facilitate measuring Ambient Equivalent Dose.



Model 44-9 Ambient Dose Equivalent Filter features:

- can be purchased separately or together with a Model 44-9 Pancake GM Detector
- flattens the response to within $\pm 20\%$ referenced to ^{137}Cs (662 keV) over an energy range of 20 keV to 1.2 MeV
- easy to mount and remove

Dose Equivalent Filter Response (green line):

Read more about the Model 44-9 Ambient Dose Equivalent Filter on the [Ludlum website](#)

Model 44-9 Exposure Filter Kit - Ludlum



The Model 44-9 Exposure Filter Kit (Ludlum) is an expansion on the Model 44-9 Pancake GM Detector. It is an energy compensation filter that flattens the energy response to facilitate measuring exposure.



Model 44-9 Exposure Filter Kit features:

- flattens the response to within $\pm 20\%$ referenced to ^{137}Cs (662 keV) over an energy range of 33 keV to 1.2 MeV
- easy to mount and remove
- filter can be purchased separately or together with a Model 44-9 Pancake GM Detector

Exposure Filter Response (blue line):

Read more about the Model 44-9 Exposure Filter Kit on the [Ludlum website](#)



Model 44-7 Alpha Beta Gamma Detector - Ludlum

The Model 44-7 Alpha Beta Gamma Detector (Ludlum) is a device for alpha, beta and gamma survey (sample counting).



Model 44-7 Alpha Beta Gamma Detector features:

- end window, halogen-quenched GM detector
- 6 cm² (0.93 in²) active; 5 cm² (0.78 in²) open window area
- 1.7 ± 0.3 mg/cm² mica window
- 2% for ¹⁴C; 10% for ⁹⁰Sr/⁹⁰Y; 7% for ⁹⁹Tc; 7% for ²³⁹Pu; 0.1% for ¹²⁵I efficiency (4π)
- 2100 cpm/mR/hr sensitivity (¹³⁷Cs gamma)
- anodized aluminum housing
- 0.5 kg weight

Read more about the Model 44-7 Alpha Beta Gamma Detector on the [Ludlum website](#)

Model 43-92 Alpha Scintillator - Ludlum



The Model 43-92 Alpha Scintillator (Ludlum) is a device for alpha contamination survey.



Model 43-92 Alpha Scintillator features:

- window area: active: 100 cm² (15.5 in²) open: 88 cm² (13.6 in²)
- weight: 0.5 kg
- window: 0.8 mg/cm² metalized polyester (1.2 mg/cm² recommended for outdoor use)
- scintillator: ZnS(Ag)
- efficiency (4π): typically 20% for ²³⁹Pu
- removable protective screen
- background radiation: 3 cpm or less
- photomultiplier tube: 2.9 cm (1.13 in.) diameter

Read more about the Model 43-92 Alpha Scintillator on the [Ludlum website](#)

Model 43-65 Alpha Scintillator - Ludlum



The Model 43-65 Alpha Scintillator (Ludlum) is a detector designed for alpha radiation survey when used in combination with a general purpose survey meter, ratemeter or scaler instrument.



Model 43-65 Alpha Scintillator features:

- 63 cm² active; 50 cm² open (window area)
- ZnS(Ag) scintillator
- 0.8 mg/cm² metalized polyester window
- 3.8 cm (1.5 in.) diameter photomultiplier tube
- efficiency (4 π): 17% for ²³⁹Pu; 17% for ²³⁰Th

Read more about the Model 43-65 Alpha Scintillator on the [Ludlum website](#)

Model 43-5 Alpha Scintillator - Ludlum



The Model 43-5 Alpha Scintillator (Ludlum) is a detector developed for alpha radiation survey when used with a common purpose survey meter, ratemeter or scaler instrument. The detector housing is assembled of aluminum alloy with beige powder coat for easy maintenance and durability.



Model 43-5 Alpha Scintillator features:

- efficiency (4π): 13% for ^{239}Pu
- scintillator: ZnS(Ag)
- 0.8 mg/cm^2 metalized polyester window
- background: 3 cpm or less
- weight: 0.9 kg
- window area: 76 cm^2 (11.9 in^2) active, 50 cm^2 (7.8 in^2) open

Read more about the Model 43-5 Alpha Scintillator on the [Ludlum website](#)



Model 9DP Ambient Dose Ion Chamber Survey Meter - Ludlum

The Model 9DP Ion Chamber Survey Meter is a highly sensitive pressurised ion chamber meter. It doesn't only provide a measurement of exposure, but also of exposure rate. The meter measures and displays data conform the ICRU (International Commission on Radiation Units) tissue equivalent.

AMBIENT DOSE EQUIVALENT

Ambient dose equivalent, is the dose equivalent readout that would be measured at a tissue depth of 10 mm. To measure this, the device requires a special ion chamber to provide a conversion of the exposure rate.

This model can simultaneously display the rate, integrated value and highest rate seen by the instrument. If desired, the user can reset the integrated value.



FEATURES

This chamber survey meter has a nice 256K colour, bit-mapped display, which provides an optimised presentation of the data. The screen is also accompanied with icons that inform the user of the active functions and instrument status. The device can write all logged data in csv format.

When the device's alarms go off, the display will flash colours and, if the user wants, it can also make an acknowledgeable sound.

If you want more information about this Ion chamber survey meter, go to [our partner's website!](#)

BENEFITS

- Provides ICRU-Based ambient dose measures
- The colour display is also readable in sunlight
- Auto zeroing and ranging
- Rechargeable batteries
- Alarm function
- USB Connectivity
- Data logging
- Chamber volume of 230 cc volume pressurised to 8 atmospheres (117 psi)
- 4-button control



Model 9DP Overview https://youtu.be/UYPJQNVeC_I



Model 9DP* overview
9DP Control Panel Overview <https://youtu.be/HusnR4e90yA>



Model 9DP Control Panel Overview



SCAN TO VIEW
VIDEO



SCAN TO VIEW
VIDEO

If you want to know more about this model...

Read our article! Or contact PEO!



Model 9DP-1 Ion Chamber Survey Meter - Ludlum

Ludlum designed the Model 9DP-1 Ion Chamber Survey Meter for radiography work where pulsed fields are being measured. This instrument correctly integrates 50 nanosecond pulses (and wider) that other systems typically miss or measure incorrectly.

The detector chamber is only pressurised to 1,36 atm (20 psi). The device has a nice 256-colour, bit mapped display, which provides an optimised presentation of the data. The instrument also has with icons that inform the user of the active functions and instrument status and which make it simple to use.



FEATURES

This chamber survey meter has an alarm that uses colour changes in the screen and an acknowledgeable audio output. It also has a rechargeable battery that delivers up to 30 hours of operation between charges.

The instrument writes the data in csv format for convenient retrieval.

The device measures both exposure and exposure rate, and can simultaneously display the exposure rate, integrated value and highest rate seen by the instrument.

BENEFITS

- Special design for measuring pulsed fields
- Low pressure chamber is non-hazmat
- Range from 0-500 mGy/h
- Sunlight readable colour display
- Auto zeroing & rangin
- Rechargeable batteries
- Alarming capability
- Data logging

If you want to know more, read [our article](#), or take a look at [our partner's website](#)!



Model 9DP Overview https://youtu.be/UYPJQNVeC_I



9DP instrument overview

9DP Control Panel Overview <https://youtu.be/HusnR4e90yA>



9DP control panel overview

How To Decompress the Model 9DP <https://youtu.be/jzbUaH9kfjU>



Decompressing the Ion Chamber





Tracerco is wereldwijd toonaangevend in stralingsdetectie en -meting en biedt een uitgebreid assortiment draagbare monitoren en persoonlijke elektronische dosimeters. Hun instrumenten zijn ontworpen voor nauwkeurige, realtime monitoring van stralingsniveaus en garanderen zo de veiligheid en naleving in diverse sectoren.

Product offering

Contamination Monitor T401 - Tracerco



Dose Rate Monitor T402 & T402HR - Tracerco



Contamination Monitor T403 - Tracerco



T406 X-ray Monitor



Intrinsically Safe Radiation Dose Rate Monitor (T202) Tracerco™



NORM Monitor-IS - Tracerco



Contamination Monitor T401 - Tracerco



The Tracerco™ T401 contamination monitors are suitable for those working in oil and gas, medical and life sciences, nuclear, CBRNe and emergency services, NDT, manufacturing, and environmental and waste management industries.

These monitor benefit from high-level functionality with added environmental tolerance, and they are a highly cost-effective monitor where intrinsic safety is not a concern.

Tracerco™ T401 contamination monitor is particularly suited to the detection of radioactive contamination, and this typically arises where man-made or naturally occurring isotopes are processed. This includes nuclear power, land remediation, research and development and medicine applications.

They also offer a number of additional key features, such as operational reliability, a direct surface ability mode and peak reading to make life easier for the worker.

The Tracerco™ T401 provides excellent sensitivity for the detection of alpha and beta radiation.

Other benefits include:

- Dual bar graph meter display: 0-1000cps
- Digital numeric display provides automatic direct translation to Bq/cm² for 14+ pre-programmed nuclides, natural and man-made
- Detachable radiation probe with up to 1.5 metres of extendable cable
- Optional extension arm for surveying contaminated pipework, drains, laboratory floors and so on
- Probe stepwise rotatable through 90° for internal surface measurements
- Backlight facility
- Audible response with adjustable alarm thresholds
- Ruggedised nylon 6/6 construction and modular integrated electronics provide an all-weather instrument



Dose Rate Monitor T402 & T402HR - Tracerco



The non-intrinsically safe radiation (contamination) Dose Rate Monitors T402 & T402HR offers an alternative to the Tracerco™ T202 Dose Rate Monitor. The instrument is designed for use in a wide range of industrial applications where radioactive substances are present.



Specifications Dose Rate Monitor T402 & T402HR Tracerco

Contamination Dose Rate Monitor T402 & T402HR

Contamination Monitor T403 - Tracerco



The Tracerco™ T403 Radiation Contamination Monitor is designed to meet the challenge of combining the operational reliability under adverse conditions with excellent sensitivity and robust construction.



Specifications Contamination Monitor T403 from Tracerco

Contamination Monitor T403 – Tracerco

T406 X-ray Monitor



The Tracerco™ T406 X-ray radiation monitor is an advanced radiation monitoring device designed for professionals in oil and gas, medical and life sciences, nuclear, CBRNe and emergency services, NDT, manufacturing and industrial, and/collections/monitors/products/tracerco-t406-x-ray-monitor environmental and waste management industries.

Unlike other radiation survey meters on the market, the Tracerco™ T406 enables rapid radiation level detection, helping users identify peak radiation measurements and minimise exposure to potential radiation leaks during operations.

Benefits of the Tracerco™ T406 X-ray monitor:

- Hygienic design – smooth lines and an easy-to-clean finish make it ideal for environments with a risk of disease transmission through hand contact, such as food processing, airport security, and hospital settings.
- Easy and safe to use – designed to be lightweight and easy to carry, with the ability to be operated remotely in demanding environments.
- Audible response – with alarm set thresholds for enhanced radiation safety.





Intrinsically Safe Radiation Dose Rate Monitor (T202) Tracerco™

The Tracerco T202 dose rate monitor provides key operational features like peak dose rate memory and personal dose integration. Tracerco designed the monitor specifically to combine intrinsic safety with robust and reliable characteristics.

The monitor is suitable for all kinds of markets like:

- Oil and gas
- First responders
- Military
- Life sciences
- Mining
- Nuclear
- Medical
- Environmental agencies



TRACERCO DOSE RATE MONITOR BENEFITS

- Intrinsically safe, so no need for a hot work permit
- Reads and records peak measurements so you can measure radiation levels remotely
- It can be used in every weather
- Adjustable alarm thresholds
- Lightweight
- Digital bar graph display and dose rate integration
- Easy to decontamination

If you want to know more about Tracerco Dose rate monitors, take a look at [our partner's site!](#)



Need advice or do you have a question?

Contact PEO!



Overview:

The Tracerco™ NORM Monitor-IS is a groundbreaking, ATEX-approved radiation monitoring device with dual probe capabilities. Using either a Geiger Muller (GM) detector or a scintillator probe, it enables users to monitor naturally occurring radioactive material (NORM) in all conditions for the first time.

It is lightweight and easy to use, yet also robust and reliable. It comes complete with a practical and secure carrying holster for ease of use.

The Tracerco™ NORM Monitor-IS is available with different combinations of handset and probes depending on your requirements.

Benefits of the Scintillation Probe:

- Robust and suitable for use in challenging conditions
- Enables radiation surveys of external walls for internal NORM deposits
- 360° detection capability for comprehensive radiation monitoring
- $\mu\text{R/h}$ option available for USA

Benefits of the GM Probe:

- Detects alpha and beta radiation
- High sensitivity to lead-210 NORM
- Provides Bq/cm^2 output for typical NORM isotopes
- Measurement modes: CPS, $\mu\text{Sv/h}$ (Scintillator), CPS, Bq/cm^2 (GM)
- All modes have background subtraction option CPM

Additional Key Features:

- One-touch integrate function for detecting very low radiation levels with increased accuracy.
- Live background subtraction and multiple measurement modes, including counts per second (CPS), counts per minute (CPM), dose rate, and surface activity.
- Easy recalibration – recalibration can be performed without the handset (spare probes can be supplied to eliminate downtime).
- Adjustable alarm thresholds for enhanced radiation safety.
- Easy to clean and decontaminate – Scintillator: IP67, GM: IP34, Handset: IP65.
- Large, easy-to-read LCD screen with bar graph and backlight for improved usability in low-light environments.



Polimaster is wereldwijd toonaangevend in oplossingen voor stralingsdetectie en -monitoring en biedt een uitgebreid scala aan instrumenten die zijn ontworpen om ioniserende straling in diverse omgevingen te detecteren, identificeren en meten. Hun productassortiment omvat handmonitoren, persoonlijke elektronische dosimeters, draagbare isotopeidentifiers, portaalmonitoren en mobiele detectiesystemen, allemaal ontworpen om te voldoen aan de strenge eisen van beveiliging, noodhulp en industriële toepassingen.

Product offering

PM1401K-3M
Multipurpose Hand-
Held Radiation
Monitor/Identifier



PoliPack® G-S
Backpack Radiation
Detector



PM1401K-3P
Multipurpose Hand-
Held Radiation
Monitor/Identifier



PoliPack® GN
Backpack Radiation
Detector



PoliPack® G
Backpack Radiation
Detector



PoliPack® GN-S
Backpack Radiation
Detector



PM1401K-3M Multipurpose Hand-Held Radiation Monitor/Identifier



PM1401K-3M model is a gamma-only radiation monitor without a neutron detector which is designed for quick and reliable measurement of gamma dose rate, detection of alpha, beta, and gamma sources, measurement of alpha and beta radiation flux density, acquisition of gamma spectra, identification of radioisotopes, and measurement of food/soil contamination with ^{137}Cs

Features

- Storage of up to 10000 events and 1000 spectra
- Audible, visual and external vibration alarm
- Categorization of identified radionuclides
- Shock and water resistant IP65 case
- Adjustable radionuclide libraries
- USB communication with PC
- Built-in GPS module

Applications

- Customs and border control
- HAZMAT and CBRNe teams
- Emergency services
- Police and security
- Industrial facilities
- First responders



PoliPack® G-S Backpack Radiation Detector



Spectroscopic Gamma-only Backpack Radiation Detector.

The **PoliPack® G-S** is a **gamma-only** Backpack-Based Radiation Detection System (BRD) equipped with spectroscopic gamma detectors for identifying radionuclides. It is carried in a compact backpack and controlled remotely via the wired control unit or a smartphone with the free Polismart® iOS and Android App.

The **PoliPack® BRDs** are rugged, lightweight, and fast-deploying devices that provide prompt and reliable detection, location, and identification of multiple and masked isotopes. The device is ideal for undercover radiation surveys in crowded areas, addressing the problems of orphaned and maliciously introduced sources and ensuring security before and during mass events. Radionuclides libraries are uploaded in the BRD and can be customized by users.



PM1401K-3P Multipurpose Hand-Held Radiation Monitor/Identifier



Gamma-neutron model suitable for various radiation control tasks.

The **PM1401K-3 series** of radiation monitors comprises a wide range of all-in-one devices for radiation detection, dose rate, contamination measurements, spectrometry, and radionuclide identification.

The **PM1401K-3P model** is the **gamma-neutron model** suitable for various radiation control tasks, including measurement of ambient dose equivalent rate, detection of alpha, beta, gamma, and neutron sources, measurement of alpha and beta radiation flux density, acquisition of gamma spectra, identification of radioisotopes, and measurement of food/soil contamination with ^{137}Cs .

Features

- Storage of up to 10000 events and 1000 spectra
- Audible, visual, and external vibration alarm
- Categorization of identified radionuclides
- Shock and water-resistant IP65 case
- Adjustable radionuclide libraries
- USB communication with PC
- Built-in GPS module

Operation principle

The PM1401K-3P continuously measures ambient dose equivalent rate $\dot{H}^*(10)$ of photon radiation in the wide energy range, detects alpha, beta, gamma, and neutron radiation, measures alpha and beta radiation flux density, operates as a gamma radiation spectrometer and radioisotope identifier, and measures food/soil contamination with ^{137}Cs radionuclide.



PoliPack® GN Backpack Radiation Detector



Gamma-Neutron Backpack Radiation Detector.

The **PoliPack® GN** is a **gamma-neutron** Backpack-Based Radiation Detection System (BRD) equipped with a highly sensitive portable radiation monitor carried in a compact backpack and controlled remotely via the wired control unit or a smartphone with the free Polismart® iOS and Android App.

The **PoliPack® BRDs** are rugged, lightweight, and fast deployable devices that provide prompt and reliable detection, location, and identification of multiple and masked isotopes. The device is ideal for undercover radiation surveys in crowded areas, addressing the problems of orphaned and maliciously introduced sources and ensuring security before and during mass events.



PoliPack® G Backpack Radiation Detector



Gamma-only Backpack Radiation Detector.

The **PoliPack® G** is a **gamma-only** Backpack-Based Radiation Detection System (BRD) equipped with a highly sensitive portable radiation monitor carried in a compact backpack and controlled remotely via the wired control unit or a smartphone with the free Polismart® iOS and Android App.

The **PoliPack® BRDs** are rugged, lightweight, and fast-deploying devices that provide prompt and reliable detection, location, and identification of multiple and masked isotopes. The device is ideal for undercover radiation surveys in crowded areas, addressing the problems of orphaned and maliciously introduced sources and ensuring security before and during mass events.



PoliPack® GN-S Backpack Radiation Detector



Spectroscopic Gamma-Neutron Backpack Radiation Detector.

The **PoliPack® GN-S** is a **gamma-neutron** Backpack-Based Radiation Detection System (BRD) equipped with **spectroscopic** gamma detectors for identifying radionuclides. It is carried in a compact backpack and controlled remotely via the wired control unit or a smartphone with the free Polismart® iOS and Android App.

The **PoliPack® BRDs** are rugged, lightweight, and fast deployable devices that provide prompt and reliable detection, location, and identification of multiple and masked isotopes. The device is ideal for undercover radiation surveys in crowded areas, addressing the problems of orphaned and maliciously introduced sources and ensuring security before and during mass events. Radionuclides libraries are uploaded in the BRD and can be customized by users.





Bertin Instruments is een wereldwijde leverancier van geavanceerde oplossingen voor stralingsdetectie en milieumonitoring, gespecialiseerd in draagbare monitoren, persoonlijke elektronische dosimeters, milieumonitoringsystemen en technologieën voor afval- en recyclingbeheer. Hun instrumenten zijn ontworpen om te voldoen aan de strenge eisen van nucleaire installaties, noodhulpdiensten en milieuagentschappen.

Product offering

MINITRACE CSDF - Bertin Instruments



MiniTRACE S5 - Saphymo



MiniTRACE γ



SaphyRAD S



SaphyRAD C



AlphaE - Bertin Instruments



SaphyRAD E Multiprobe - Bertin Instruments



SaphyRAD MS Dom-420 - Bertin Instruments





MiniTRACE CSDF is a unique multipurpose meter for contamination control, survey, dose rate and X Rays radiation measurement.

The MiniTRACE CSDF is a multipurpose instrument fulfilling the functions of a contamination, survey and dose rate meter. It is designed to improve the detection and the quantification of radiation contamination, making this a frontline tool in the protection against uncontrolled distribution of radioactive material. MiniTRACE CSDF provides several functions and measurement modes such as the dose rate, the activity or the count rate.

With the activity and surface contamination modes, different nuclides can be selected from the inbuilt library. The surface contamination mode is calibrated according to ISO 7503-1. Combined with the right accessories, wipe tests (surface contamination) and food tests (food contamination) can be performed. A mean value mode and a count up mode are provided to increase instrument accuracy.



Datasheet

Radiation type

- Alpha, beta and gamma

Detector type

- Geiger-Mueller pancake, active counter area 15.5 cm², active diameter 44.5 mm, window 2.0 mg/cm², energy compensated

Display unit

- $\mu\text{Sv/h}$, cps, Bq, Bq/cm² and Bq/L

Measurement range

- Dose rate: up to 5,000 $\mu\text{Sv/h}$ (100 mR/h)
- Pulses: up to 10,000 cps (300,000 cpm)
- Activity (depends on the radionuclide): up to 100 000 Bq (999,000 dpm)
- Surface contamination (depends on the radionuclide): up to 5,000 Bq/cm² (30,000 dm/cm²)
- Food: up to 100,000 Bq/l (1,000,000 pCi/l)

Gamma sensitivity

- 4.3 cps/ $\mu\text{Sv/h}$

Energy Range

- 26 keV to 1.25 MeV, lid has to be closed

Sensitivity

- Co60: 0.41 cps/Bq/cm²; C14: 1.65 cps/Bq/ cm²; Sr90+: 10.65 cps/Bq/ cm²; Am-14:4.19 cps/Bq/ cm²; Cl36: 9.57 cps/Bq/ cm²; Cs137: 11.15 cps/Bq/ cm² ; U238: 4.19 cps/Bq/ cm²; I131: 9.71 cps/Bq/ cm²

Display

- 6-digit LCD display, plus 5-digit alpha numeric display for alarm- and status messages

Grid

- 0.8 stainless steel, 80% transparency, easily removable

Integration time

- Automatic, with count up mode adjustable

Energy supply

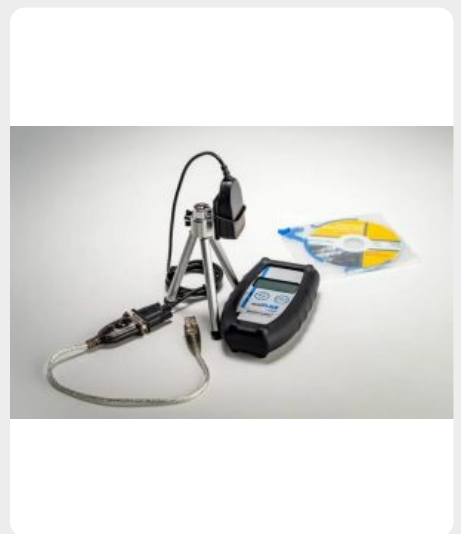
- 2 Mignon batteries (type: LR6, AA, MN 1500) 1.5V

Battery autonomy

- Up to 2,000 h

Built-in sensors

- IR-interface for software communication



Benefits

Easy and fast monitoring

- MiniTRACE CSDF is easy to use (2 buttons interface) and provides a very fast response time (1sec.). It can also be set up with the optional DataVIEW software.

All-in-one survey meter

- MiniTRACE CSDF allows multipurpose measurements for dose rate H*(10) (μSv/h), count rate (cps), activity (Bq), surface contamination (Bq/cm²) and food contamination (Bq/L). Radionuclide can also be selected.

Designed for harsh environments

- MiniTRACE CSDF is compact and robust with its strong housing protected with a rubber boot. It is suitable for long time operations (battery lifetime: 2,000 h).

Technologies

MiniTRACE CSDF is a unique multipurpose meter for contamination, survey, dose rate, X Rays, food and wipe test measurements. It is equipped with a 15.55 cm² Geiger-Mueller pancake detector and a 0.8 mm stainless steel grid. In addition to the verification of contamination, it is ideally suited to measuring the environmental dose rate equivalent (H*(10)).

MiniTRACE CSDF displays values in cps, µSv/h, Bq, Bq/cm² and Bq/L. For the Bq and Bq/cm² modes, the user can select different nuclides with built in nuclide specific calibration library (Cs137, Am241, I131, Sr90, U238, C14, Cl36, Co60).

The Bq/cm² mode (for surface contamination) is calibrated according to ISO 7503-1. MiniTRACE CSDF offers a special mode for food measurement: it measures the activity level found in the liquid or smashed food, with a state-of-the-art food measuring kit.

Accessories

- Protective rubber cover (included)
- Communication kit (incl. DataVIEW software and IR transceiver)
- Transparent plastic protection
- Belt pouch
- Suitcase (Pelicase)
- Wipe test kit
- Food measuring kit
- Emergency case
- Pressure-tight container for air transport

MiniTRACE S5 - Saphymo



The MiniTRACE S5 is a contamination meter designed to improve the safety of workers in all different kinds of fields. It's very sensitive and responds within a second.

Because the device is very user-friendly, it's very easy to detect possible spots of contamination in the controlling areas. The 6-digit display shows the activity value with a fixed decimal point.

The MiniTRACE has four pre-programmed alarm thresholds, but users can also adjust these to their personal needs.



This contamination meter is not only easy to use, but it's also very fast. If the device detects something, it will respond within a second. The device is applicable to many fields, like nuclear power plants, research centers, hospitals, police, fire brigades and the army.

BENEFITS OF THE MINITRACE S5

- High sensitivity
- Fast response time
- Compact and robust
- Ergonomic design
- Easy two-button operation
- 4 alarm thresholds
- Visual and audible alarm output
- Infrared interface
- X-ray sensitivity of >5 keV

If you want to read more about dose rate meters from Bertin, visit [their website!](#)

If you are in doubt about what MiniTRACE suits you best...

[Read this!](#)

MiniTRACE γ



Light & sturdy, the MiniTRACE γ survey meter measures personal exposure, along with X & Gamma radiations, to improve workers' safety in hazardous environments. The MiniTRACE γ is available in 2 versions - S10S & S100S - each with its own energy & measurement range.

In accordance with the ALARA principle (As Low As Reasonably Achievable), the MiniTRACE γ allows for the assessment of personal exposure hazard faced by workers in controlled zones of nuclear power plants, reprocessing facilities, treatment centers & hospitals, etc. to help them better adapt their daily work according to the risk.

Ergonomic & easy to use, it also meets the operational needs of public service's units, such as firefighters, first responders, HAZardous MATerial teams, early warning & rapid response cells, radiation protection specialists (PCR), etc.

Fitted with fast response time (≈ 1 second), the MiniTRACE γ survey meter measures instantaneously the ambient dose equivalent rate $H^*(10)$ or the gamma radiation exposure levels, with a high level of autonomy (approximately 2,000 hours).

The MiniTRACE γ is also equipped with a built-in memory able to save up to 650 measured values of instant & accumulated radiation dose.

Both MiniTRACE γ S10S & S100S are available in radio version (S10R & S100R), allowing for survey meters to be integrated into a ShortLINK/SkyLINK communication network, with a maximum reach of 20 kilometers.



SaphyRAD S



The SaphyRAD S is a multiprobe survey meter developed to cover the needs of the nuclear and security market. This rugged, sensitive, and functional survey meter includes a wide and bright LCD display monitors and measures dose and Gamma dose rates in harsh environments even by non-specialists. Equipped with a full range of external probes, this versatile survey meter can discriminate Alpha/Beta radiation, monitor surface contamination, with reliability and accuracy, it can also measure dose rate in hard-to-reach areas and be used to research radioactive sources. In addition, the SaphyRAD S has an integrated simulator that is perfectly suited for training purposes. By utilizing a simulation probe, the user can recreate an Alpha/Beta contamination, enabling training in authentic conditions without the need for radioactive sources.

Benefits

- Robust: designed for use in harsh environments
- Large, high-resolution colour display
- Integrated simulation mode for training
- Designed for use with CBRN personal protective clothing
- Integrated GPS
- Specific algorithm for fast and reactive detection
- Large dose rate range: from 0.05 $\mu\text{Sv/h}$ to 10 Sv/h
- Complete range of external probes for source tracking and measuring multiple contamination, specially designed for use by non-radiation specialists.



SaphyRAD C



The SaphyRAD C is a versatile multiprobe contamination meter used for monitoring Alpha and Beta contamination in harsh environments. It has been developed to meet all needs of contamination control for multiple markets such as the nuclear and NORM industries, medical structures & first responders, thanks to its integrated nuclide library.

It is equipped with a powerful algorithm to allow very fast and reliable detection of ionising radiation in a variety of civil applications. The SaphyRAD C has been designed ergonomically to be held with gloves on. Its large colour display makes the results perfectly easy to read. The SaphyRAD C possesses a wide range of contamination probe and it is compatible with all analogue probes on the market.

Ruggedized for harsh environment

The SaphyRAD C has a robust housing with 6 large buttons designed for use with gloves. This device is adapted to meet the needs of the Nuclear industry, but also of the NORM industry, first responders & medical structures.

Versatility

SaphyRAD C is designed for the detection & measurement of Alpha and/or Beta radiation sources with the use of external connected measuring probes. It has a wide dose rate range from 0.05 $\mu\text{Gy/h}$ to 10Gy/h.

It is also compatible with external analog probes of other systems.

Ease of use

SaphyRAD C is an ergonomic handheld device with a high image quality color screen. Some probes also include an embedded alarm & a distance control indicator.

Efficiency

SaphyRAD C works with a specific algorithm which was developed for a very fast and reactive detection of radiation sources.



AlphaE – Bertin Instruments



AlphaE is an electronic handheld device for fast and time-resolved radon monitoring in buildings, outdoors and mines. Typically, 80 % of the final result is achieved after 2 hours (faster response for higher values). Due to its ultra-lightweight design and sophisticated features, AlphaE is highly suitable also for surveying the personal radon exposure and dose at workplaces.



The AlphaE's favourable price-performance ratio makes it also interesting for service companies engaged in radon assessment and mitigation as well as for users in private homes. Up to 6 months battery life allows long-term measurement without mains power. Permanent operations via mains supply are possible via USB port.

Advantages AlphaE

- ultra-lightweight design
- sophisticated features
- wide measuring range for professional use
- up to 6 months autonomy
- suitable software included

Download the datasheet or contact our product specialist.



SaphyRAD multiprobe alpha & beta contamination meter has been developed to meet all needs of contamination control for multiple markets such as the nuclear and NORM industries, medical structures & first responders, thanks to its integrated nuclide library. Its ergonomic interface and design have been especially conceived for use even by non-specialists.



SaphyRAD's wide range of contamination probes combined with its specific algorithm allow for a very fast and reactive detection. Depending on the probe, the operator can either assess small or large areas to detect alpha, beta/gamma or alpha & beta/gamma radioactive contamination. All data can be stored on an SD card for measurement recordings.

SaphyRAD E advantages

- user friendly embedded alarm & distance control indicator
- wide range of compatible probes
- adaptative nuclide library
- versatile for contamination & measurement operations
- ruggedized for harsh environment

[SaphyRAD E](#)



SaphyRAD MS is the latest multiprobe survey meter designed for operation in harsh environments such as military fields and first responders.



Together with the probes, SaphyRAD MS allows to cover most of the needs of first responders. SaphyRAD MS associates a wide range dose rate meter and external smart probes for source and hot spot search and contamination measurement.

SaphyRAD MS includes a simulation mode which allows to train the users with high reality without the use of radioactive sources. Special care has been taken in the design of man machine interface for quick use by non radiation specialists.

SaphyRAD MS features

- designed for operation in harsh environments
- high resolution and large color LCD display
- built in simulation function for training
- designed for use with CBRN protective clothing
- built in GPS
- specific algorithm for very fast and reactive detection
- wide dose rate range 0.05 $\mu\text{Gy/h}$ to 10Gy/h
- comprehensive external smart probes for source search and multiple contamination measurement specially designed for use by non radiation specialists

[SaphyRAD MS](#)

[SaphyRAD MS probes](#)

Contact our PEO product specialist.



S.E. International, Inc. is een vertrouwde Amerikaanse fabrikant van stralingsdetectie-instrumenten onder het merk Radiation Alert®. Hun productassortiment omvat gebiedsmonitoren, draagbare meetinstrumenten en persoonlijke elektronische dosimeters – elk ontworpen voor nauwkeurige, realtime stralingsmonitoring in een breed scala aan toepassingen.

Product offering

**Radiation Alert
Monitor 200**



Radiation Alert MC1K



**Radiation Alert
Frisker**



**Radiation Alert
Ranger**



**Radiation Alert
Monitor 4EC**



**Radiation Alert®
Ranger EXP**



**Radiation Alert
Monitor 1000EC**



**Radiation Alert®
GammaView**



**Radiation Alert
Monitor 4**



Radiation Alert Monitor 200



The Monitor 200, your go-to solution for precise and versatile radiation detection. This state-of-the-art device measures alpha, beta, gamma, and x-rays providing accurate readings displayed in your preferred unit of measurement. Choose from CPM, CPS, $\mu\text{Sv/hr}$, mR/hr, or in accumulated counts.

Featuring a digital backlit display, the Monitor 200 ensures easy readability in any environment. The addition of a red count light and an audible beeper accompanying each count detected enhances your awareness during radiation monitoring. With an adjustable timer and customizable loud alert, this radiation detector is tailored to meet your specific needs, offering both accuracy and user-friendly functionality.

The Monitor 200 doesn't just stop at on-the-spot readings- it's equipped with internal memory and Included with your purchase is the Free Observer USB Software (compatible with Windows only), enabling you to effortlessly download and manage your data while setting up computer alarms for added convenience.

For an enhanced experience, the optional Bluetooth module opens up a world of possibilities. The Radiation Alert® Monitor 200 seamlessly integrates with the free Radiation Alert® Observer BLE app available for download from the Google App Store. This app empowers you to display real-time readings with descriptions, conduct timed counts, append GPS data, and send your saved survey files. What's more, any alarms set on the instrument will be mirrored on your android device, ensuring you stay informed and in control.



Radiation Alert MC1K



The MC1K is an ergonomic handheld survey meter using a built-in energy compensated GM detector. It detects gamma and x-rays up to 1000 mR/hr over 4 selectable ranges. The energy compensated Geiger counter affords the detector a more linear response to gammas and x-rays over the full range. A beep sounds and a count light flashes with each event detected.

Applications & Uses: Expanded Range up to 1000 mR/hr, Linear Response needs with Energy Compensation, Checking accelerator & x-ray shielding for leakage, Checking industrial gauges; such as moisture, density, or level gauges containing Cesium-137, Locating lost sources, Personal protection, General surveying



Radiation Alert Frisker



Tired of dealing with cumbersome cables? Need a free hand? Frustrated with carrying around bulky meters? Introducing The Radiation Alert® Frisker. This compact device detects alpha, beta, gamma, and X-ray radiation. It features multiple units of measure, customizable alarm levels, and a backlit display for easy reading.

The Frisker is a lightweight, single-handed radiation contamination instrument designed to meet the needs of today's radiation professionals. Perfect for leak testing, surface monitoring, sample screening, and personnel screening, it integrates the latest electronics with a reliable Geiger-Mueller detector. S.E. International has crafted a durable, ergonomic Geiger counter that excels in various radiological applications.

Applications & Uses: Screening personnel and objects, such as packages, surfaces, and clothing, Surveying for NORM (Naturally Occurring Radioactive Material) contamination, Gross wipe counting, Contamination surveys of packages, equipment, people, etc., Regulatory inspections, Low energy radionuclide detection.



Radiation Alert Ranger



Introducing the Radiation Alert Ranger®, the pinnacle of nuclear radiation detection technology that seamlessly combines performance with unparalleled portability. Whether you're surveying facility or venturing into the field, the Radiation Alert Ranger® stands as a reliable companion, designed with industrial environments in mind while retaining all the features cherished in laboratory settings.

Compact and lightweight, the Radiation Alert Ranger® is a handheld digital survey meter that sets the bar for sensitivity across alpha, beta, gamma, and x-rays ensuring comprehensive coverage for your radiation detection needs. Equipped with built-in efficiencies for common isotopes, this model goes the extra mile by calculating activity in Becquerels (Bq) and Disintegrations Per Minute (DPM).

The Radiation Alert Ranger® boasts a user-friendly interface featuring a backlit digital display, a red count light, and a distinctive beeper that signals each count detected, enhancing your ability to respond promptly to radiation levels. Selectable alert levels, an adjustable timer, and an optional wipe test plate for swipes provide further flexibility, allowing you to tailor the device to your specific requirements.

- Free Observer USB Software
- Free Observer BLE Software
- For Use With The Optional Bluetooth Module

But the Radiation Alert Ranger® doesn't stop there. Included with your purchase is the Free Observer USB Software (compatible with Windows only), enabling you to effortlessly download and manage your data while setting up computer alarms for added convenience.

For an enhanced experience, the optional Bluetooth module opens up a world of possibilities. The Radiation Alert Ranger® seamlessly integrates with the free Radiation Alert® Observer BLE app available for download from the Google App Store. This app empowers you to display real-time readings with descriptions, conduct timed counts, append GPS data, and send your saved survey files. What's more, any alarms set on the instrument will be mirrored on your android device, ensuring you stay informed and in control.

Elevate your radiation detection capabilities with the Radiation Alert Ranger® - where cutting-edge technology meets user-friendly design, providing peace of mind whether



in the lab, facility, or in the field.

Applications & Uses: Surveying for NORM (Naturally Occurring Radioactive Material) contamination, Gross wipe counting, Contamination surveys of packages, equipment, people, etc., Regulatory inspections, Scrap Metal Screening, Low energy radionuclide detection

Radiation Alert Monitor 4EC



The Monitor 4EC is an energy compensated, ergonomic radiation survey meter capable of detecting alpha, beta, gamma, and x-rays over 3 selectable ranges. A red count light flashes and a beep sounds with each event detected. The Monitor 4EC offers a linear response for gamma and x-rays (above 40 keV).

Applications & Uses: Checking accelerator & x-ray shielding for leakage, Checking industrial gauges, such as moisture, density, or level gauges containing Cesium-137, Locating sources, Personal protection, General surveying



Radiation Alert® Ranger EXP



The Radiation Alert Ranger® EXP, seamlessly combines performance with unparalleled portability. Whether you're surveying facility or venturing into the field, the Radiation Alert Ranger® EXP stands as a reliable companion, designed with industrial environments in mind while retaining all the features cherished in laboratory settings.

Compact and lightweight, the Radiation Alert Ranger® EXP is a handheld digital survey meter that sets the bar for sensitivity to NORM and low levels of alpha, beta, gamma, and x-rays ensuring comprehensive coverage for your radiation detection needs. Equipped with built-in efficiencies for common isotopes, this model goes the extra mile by calculating activity in Becquerels (Bq) and Disintegrations Per Minute (DPM).

The Radiation Alert Ranger® EXP has a user-friendly interface featuring a backlit digital display, a red count light, and a beeper that signals each count detected, enhancing your ability to respond promptly to radiation levels. Selectable alert levels, an adjustable timer further flexibility. allowing you to tailor the device to you specific requirements.

- Free Observer USB Software
- Free Observer BLE Software
- For Use With The Optional Bluetooth Module

But the Radiation Alert Ranger® EXP doesn't stop there. Included with your purchase is the Free Observer USB Software(compatible with Windows only), enabling you to effortlessly download and manage your data while setting up computer alarms for added convenience.

For an enhanced experience, the optional Bluetooth module opens up a world of possibilities. The Radiation Alert Ranger® EXP seamlessly integrates with the free Radiation Alert® Observer BLE app available for download from the Google App Store. This app empowers you to display real-time readings with descriptions, conduct timed counts, append GPS data, and send your saved survey files. What's more, any alarms set on the instrument will be mirrored on you android device, ensuring you stay informed and in control.

Applications & Uses: Surveying for NORM (Naturally Occurring Radioactive Material) contamination, Gross wipe counting, Contamination surveys of packages, equipment, people, etc., Regulatory inspections, Scrap Metal Screening, Low energy

Radiation Alert Monitor 1000EC



The Monitor 1000EC is an energy compensated radiation detector that measures gamma, and x-rays. Perfect for most applications requiring an energy compensated detector. Users can choose from readings of CPM, CPS, $\mu\text{Sv/hr}$, mR/hr, or in accumulated counts. It has a red count light, a beeper that sounds with each count detected, and includes an adjustable timer, and selectable alert.

- Free Observer USB Software
- Free Observer BLE Software For Use With The
- Optional Bluetooth Module

The Radiation Alert® Monitor 1000EC doesn't stop there. Included with your purchase is the Free Observer USB Software (compatible with Windows only), reads in Total Counts, CPM, $\mu\text{R/hr}$, mR/hr, CPS, $\mu\text{Sv/hr}$, and has the ability to collect and log data, set alarms, set timed counts, set the calibration date and settings, and generate reports, enabling you to effortlessly download and manage your data while setting up computer alarms for added convenience.

For an enhanced experience, the optional Bluetooth module opens up a world of possibilities. The Radiation Alert® seamlessly integrates with the free Radiation Alert® Observer BLE app available for download from the Google App Store. This app empowers you to display real-time readings with descriptions, conduct timed counts, append GPS data, and send your saved survey files. What's more, any alarms set on the instrument will be mirrored on your android device, ensuring you stay informed and in control.

Free Radiation Alert® Observer BLE app from the Google App Store, where you can display the readings from your detector, label sample readings and descriptions, take timed counts, append GPS data and send your saved survey file. This radiation detector helps you to set alarms which will also activate if you sync it with your android device. .

This radiation detector device include Free Observer USB software (Windows® only) reads in Total Counts, CPM, $\mu\text{R/hr}$, mR/hr, CPS, $\mu\text{Sv/hr}$, and has the ability to collect and log data, set alarms, set timed counts, set the calibration date and settings, and generate reports.

Applications & Uses: X-ray chamber inspection, Expanded Range up to 1000 mR/hr, Linear Response needs with Energy Compensation, Checking accelerator & x-ray shielding for



leakage, Checking industrial gauges, such as moisture, density, or level gauges containing Cesium-137, Locating lost sources, Personal protection, Linear response detection applications, General surveying

Radiation Alert® GammaView



The compact GammaView is light, easy to carry and operate with a 1×1 NaI scintillation detector that accurately measures gamma contamination and exposure. Perfect for use in the lab, facility, and in the field.

The GammaView boasts a user-friendly interface featuring a backlit digital display, a red count light, and a distinctive beeper that signals each count detected, enhancing your ability to respond promptly to radiation levels. Selectable alert levels, an adjustable timer, allowing you to tailor the device to your specific requirements.

The GammaView can also be used as a single-channel analyzer (SCA). This function allows a “window” to be set to focus on a specific energy region of the gamma spectrum, effectively reducing the background count.

Specific Applications Include: Compliance monitoring, environmental monitoring, remote monitoring, health physics, homeland defense.



Radiation Alert Monitor 4



The Radiation Alert® Monitor 4 is a compact, analog radiation detector designed for versatility and reliability. This general-purpose survey meter can detect alpha, beta, gamma, and X-ray radiation across three selectable ranges. With decades of proven performance in the industry, the Monitor 4 has become one of the leading analog radiation detectors available today. Its simple, ergonomic design features a red count light that flashes and an audible beep for each detected count. A quick flick of your thumb allows for an easy battery check and silent operation.

Applications & Uses: Checking industrial gauges, such as moisture, density, or level gauges containing Cesium-137, Locating Sources, Personal protection, General surveying





Georadis s.r.o. is een gespecialiseerde fabrikant van geavanceerde instrumenten voor stralingsdetectie en -monitoring en biedt een uitgebreid scala aan oplossingen voor veld- en laboratoriumtoepassingen. Hun productportfolio omvat handheld monitoren, draagbare isotopeidentifiers, apparatuur voor omgevingsmonitoring en laboratoriumapparatuur, allemaal ontworpen om te voldoen aan de strenge eisen van professionals in sectoren zoals milieumonitoring, industriële veiligheid en openbare veiligheid.

Product offering

**RT-20 Compact
handheld Radiation
Detector - Georadis**



**RT-21 Handheld
Radiation Detector -
Georadis**



**RT-22 Handheld
Radiation Detector
with GeoView
Software - Georadis**



RT-30 Mk II - Georadis





RT-20 Compact handheld Radiation Detector - Georadis

The RT-20 Compact handheld Radiation Detector is a robust and compact hand held radiation detector specifically designed to quickly scan for radioactive materials. The ruggedness, small size and light weight of the RT-20, combined with its sensitive Gamma Ray scintillation detector makes it a versatile instrument for quick measurements in a large variety of applications.



RT-20 Compact handheld Radiation Detector features:

- 1,3 kg; balanced and lightweight
- reads in counts per second, sampling rate 4 per second
- high sensitivity, NaI/Tl crystals
- adjustable audio threshold
- audio output and numeric LCD display maximum 19999 cps
- automated warning of high dose rate
- protection boot with carrying straps
- supplied in aluminium suitcase with moulded insert
- automatic charger integrated in unit
- dust and sprinkling water resistant (IP66)
- available with telescope (RS-111T)

Read more about the RT-20 Compact handheld Radiation Detector on the [Georadis website](#)

RT-21 Handheld Radiation Detector - Georadis



The RT-21 (Georadis) is the most sensitive of numerous manufactured handheld radiation detectors. Its robust design allows it to operate even in the most demanding climatic conditions. Our bestseller at the time of the uranium panic. Popular with scrap yard owners.



RT-21 Handheld Radiation Detector features:

- one button operation
- highest sensitivity
- weather protected
- lightweight, rugged and compact design
- graphical display
- with telescope available (RS-21T)
- sampling period: 20/sec
- detector: NaI(Tl) 2×2" or BGO 2×2", 103 ccm
- gamma ray energy range: 30 - 3000 keV

Read more about the RT-21 Handheld Radiation Detector on the [Georadis website](#)



RT-22 Handheld Radiation Detector with GeoView Software - Georadis

The RT-22 model is based on the RT-21 series, the most sensitive from the range of manufactured hand-held radiation detectors. Compared to its predecessor, it comes with an internal memory for storing measurement data, and Bluetooth connectivity allowing the use of an external GPS module. Its robust design makes it suitable for hostile climatic conditions. Our bestseller at the time of the uranium panic. Popular with scrap yard owners.



GeoView provides specified views on accumulated data such as survey in both dose rate or cps. The RT-22 Handheld Radiation Detector can be connected with the software through USB or Bluetooth.

RT-22 Handheld Radiation Detector with GeoView Software features:

- graphical display
- with telescope available (RT-22T)
- sampling period: 20/sec
- detector: NaI(Tl) 2×2" or BGO 2×2", 103 ccm
- gamma ray energy range: 30 - 3000 keV
- highest sensitivity
- weather protected
- lightweight, rugged and compact design

Read more about the RT-22 Handheld Radiation Detector with GeoView Software on the [Georadis website](#)

**Handheld Isotope Identification Instrument RIID**

The RT-30 Mk II is the second generation of popular handheld gamma ray spectrometer RT-30. Strengths of the first generation were copied in the new model. There has to be highlighted a strong alloy body sealed against dust and water, protective removable rubber boot, comfortable grip and low weight.

The Mk II learned of the limitations of the first generation and features a large colored transreflectible sun readable display, improved user's interface with five operation buttons, removable but well-sealed battery pack and clear and loud audio.



The instrument is built as an open platform with potential of fast and simple implementation of special features required by customers. Wide fleet of detectors is supported. The Mk II bridges traditional scintillation detection probes using common vacuum photomultiplier tube with up-to-date silicon photomultipliers technology. Saved significant volume of vacuum tubes is next occupied by larger size of detector.

A heart of gamma ray spectrometer is FPGA (programmable array) plus fast speed and low consumption ARM type processor. The combination of FPGA with ARM is taken of preceding larger instrument and has been tested for years. Beside gamma ray section the FPGA is capable to handle other sensors at the same time. A Geiger-Mueller counter and a Neutron detector make a standard offer.

Thanks to latest electronic the Mk II opens a platform for supporting most modern existing communication standards. Sharing new and traditional communication standards is guaranteed wide compatibility with older as well as new communication devices. The existing USB was upgraded to level C and beside communication it is used also for unit's battery charging. GPS system is built in the front part of the instrument and is used for localization of the unit and also for time synchronization.

Quickly determining the location of lost radioactive sources in the environment or scrap, monitoring of waste in hospitals or waste incinerators, scanning people or baggage to disclose illicit trafficking of nuclear materials; all are typical applications for the RT-30 Mk II series.

Features:

- Ergonomic, lightweight handheld well balanced, compact;
- Comfortable grip with five buttons operable in glows;
- Removable protective rubber boot;
- Detectors fully build in the housing, protected by rubber foam;
- Large, transreflectible colored display – sharp and high contrast in sunlight, backlighted in dark;
- Loudspeaker with plastic membrane watertight;
- Four status indication LEDs – indication of alarms and health status;
- USB standard C for data transfer and charging;
- Wide fleet of scintillation detectors NaI/Tl, CsI/Tl, CsI/Eu, LaHalide, BGO, GAGG, Srl, Plastic scintillation

detectors PVT;

- Maximum detector size: Diameter 2" and height 2" with standard vacuum PMT or max 5" with Silicon PMT (SiPM or MPPC).

See the full details in the RT-30 Mk II datasheet.





Kromek Group plc is een wereldleider in geavanceerde stralingsdetectietechnologieën en is gespecialiseerd in compacte oplossingen met een hoge resolutie voor beveiligings-, defensie-, nucleaire en onderzoekstoepassingen. Kromek maakt gebruik van gepatenteerde Cadmium-Zinktelluride (CZT) halfgeleidertechnologie en levert een veelzijdig portfolio met handheld monitoren, draagbare isotopeidentifiers, CZT-gebaseerde gammacamera's en spectrometers van laboratoriumkwaliteit.

Product offering

D5 RIID



D3S ID



RayMon 10



D5 RIID



De D5 RIID biedt een uniek, krachtig en veelzijdig stralingsdetectieapparaat in een draagbaar pakket voor militair, binnenlandse veiligheids- en industrieel personeel.



De D5 RIID is een klein, licht, draagbaar radio-isotoopenidentificatieapparaat (RIID) met een resolutie van 3,5%, een uitgebreide bibliotheek met radio-isotopen en een ultralaag aantal valse alarmen. Het scant en identificeert voortdurend radiologische bedreigingen in realtime, zelfs in gemengde bronomgevingen.

De D5 RIID combineert een kleine vormfactor met krachtige radiometrische prestaties en verbeterde gevoeligheid bij een gemiddelde resolutie van 3,5%. De D5 RIID heeft een oppervlakte-efficiëntie die 62% hoger is in vergelijking met conventionele RIID's.

D5 RIID Overview <https://youtu.be/yi-uvo05nFg>



D5 RIID is de kleinste, lichtste met de ultieme detectieprestaties. Het heeft een resolutie van 3,5%, met een uitgebreide bibliotheek met radio-isotopen en een ultralaag aantal valse alarmen. Het scant en identificeert voortdurend radiologische bedreigingen in realtime, zelfs in gemengde bronomgevingen.

D3S ID



Een draagbare, camouflieerbare gamma- en neutronendetector die de kracht van een RIID in een pakket ter grootte van een persoonlijke stralingsdetector (PRD) stopt. D3S ID is de nieuwe standaard in draagbare stralingsdetectoren.

De D3S ID is een krachtig, draagbaar, onopvallend en handsfree apparaat dat voortdurend scant op bedreigingen voor gamma- en neutronenstraling.



Kromek's D3S voldoet aan de databeveiligingsverwachtingen van overheden, inlichtingendiensten en veiligheidsautoriteiten. De D3S wordt standaard geleverd met een beveiligde smartphone (Android-bediening), waarop de exclusieve en beveiligde Kromek-detectorsoftware staat. In de Verenigde Staten wordt de D3S al veelvuldig gebruikt, bijvoorbeeld op brandweerwagens en ambulances of als area mapping systeem met 1.000 detectoren tijdens een 'speurtocht'. In Europa is de D3S de afgelopen jaren ingezet tijdens staatsbezoeken en NAVO-overleg om vroegtijdige radioactieve dreigingen op te sporen die aanwezig kunnen zijn in vracht, voertuigen, gebouwen, andere objecten en in het milieu.

Functies:

- Identificeert 37 isotopen (17 meer dan de huidige ANSI-standaard)
- Identificeert sneller dan een RIID
- Budgetvriendelijk in vergelijking met andere producten op de markt
- Klein formaat, draagbaar, past aan de riem
- Netwerkbaar



RayMon 10

Een krachtige en robuuste draagbare gammadetector voor identificatie van radioactieve isotopen met hoge resolutie. De RayMon10 is een van de krachtigste en meest robuuste draagbare stralingsmonitors ter wereld. Het kan worden gebruikt voor het detecteren, meten en nauwkeurig identificeren van gammastraling uitzendende radionucliden, waardoor isotopenidentificatie met hoge resolutie mogelijk wordt gemaakt met behulp van de nieuwste vastestofdetectortechnologie van CZT. Het is een alles-in-één oplossing voor uw identificatiebehoeften voor gamma-radionucliden

Het kan een verscheidenheid aan rapporten uitvoeren, waaronder datum/tijd, handheld-ID van de gebruiker, foto- en audionotities, GPS-positionering, stralingsspectra en isotopenidentificatie.

Variaties in normale bedrijfsomstandigheden kunnen vaak de prestaties van de identificatie van radio-isotopen beïnvloeden. De geavanceerde één kubieke centimeter CZT coplanaire rasterdetector van de RayMon10 biedt stabielere prestaties dan detectoren van het scintillatietype





Radiation Solutions Inc. (RSI) is een Canadees bedrijf dat gespecialiseerd is in geavanceerde stralingsdetectie- en -monitorsystemen, met een focus op portaalmonitoren voor diverse toepassingen. Hun technologieën zijn ontworpen om veiligheid en naleving te garanderen in sectoren zoals staal, schroot, recycling en grensbewaking.

Product offering

RS-230 BGO Handheld Spectrometer - Radiation Solutions



RS-125 Handheld Spectrometer - Radiation Solutions



RS-125 Handheld Spectrometer - Radiation Solutions



RS-230 BGO Handheld Spectrometer - Radiation Solutions



The RS-230 BGO Handheld Spectrometer (Radiations Solutions) is a portable handheld radiation survey search device for use in the geophysical industry. Using a BGO give very significant increase in performance over the normally used NaI detector (3x).



RS-230 BGO Handheld Spectrometer features:

- single button operation
- high countrate: 65, 535
- protection: IP67
- rugged design
- digital LCD display
- analyses single channel and multichannel
- PC connectivity: USB or Bluetooth
- detector: BGO 2×2", 103 ccm

Read more about the RS-230 BGO Handheld Spectrometer on the [Radiation Solutions website](#)



RS-125 Handheld Spectrometer - Radiation Solutions

The RS-125 Handheld Spectrometer (Radiation Solutions) is an advanced mobile instrument for radiation survey. The device is mainly used for spectral analyses in the geophysical industry. The RS-125 has the highest sensitivity in the market of spectrometers and is simple in use. There are no test sources required, the spectrometer stabilizes automatically on the different forms of radioactivity (K, U and Th).



RS-125 Handheld Spectrometer features:

- single button operation
- digital LCD display
- detector: NaI(Tl) 2×2"
- analyses single channel and multichannel
- PC connectivity: USB or Bluetooth
- high countrate: 65, 535
- protection: IP67
- rugged design

Read more about the RS-125 Handheld Spectrometer on the [Radiation Solutions website](#)



RS-125 Handheld Spectrometer - Radiation Solutions

The RS-125 Handheld Spectrometer (Radiation Solutions) is an advanced mobile instrument for radiation survey. The device is mainly used for spectral analyses in the geophysical industry. The RS-125 has the highest sensitivity in the market of spectrometers and is simple in use. There are no test sources required, the spectrometer stabilizes automatically on the different forms of radioactivity (K, U and Th).



RS-125 Handheld Spectrometer features:

- single button operation
- digital LCD display
- detector: NaI(Tl) 2x2"
- analyses single channel and multichannel
- PC connectivity: USB or Bluetooth
- high countrate: 65, 535
- protection: IP67
- rugged design

Read more about the RS-125 Handheld Spectrometer on the [Radiation Solutions website](#)

PERSOONLIJKE ELEKTRONISCHE DOSIMETERS





Tracerco is wereldwijd toonaangevend in stralingsdetectie en -meting en biedt een uitgebreid assortiment draagbare monitoren en persoonlijke elektronische dosimeters. Hun instrumenten zijn ontworpen voor nauwkeurige, realtime monitoring van stralingsniveaus en garanderen zo de veiligheid en naleving in diverse sectoren.

Product offering

PED2 (Personal Electronic Dosimeter)
- Tracerco



PED2 - ER (Personal Electronic Dosimeter)
- Tracerco



PED2-IS (Personal Electronic Dosimeter)
- Tracerco



PED-Blue (Personal Electronic Dosimeter)
- Tracerco



PED+ (Personal Electronic Dosimeter)
- Tracerco



PED-ER (Personal Electronic Dosimeter)
- Tracerco



PED-ER+ (Personal Electronic Dosimeter)
- Tracerco



Dosimeter software DoseVision™ and DoseVision™ Tracerco



PED2 (Personal Electronic Dosimeter) - Tracerco



A flexible personal electronic dosimeter for general radiation protection applications.

Flexible radiation protection

Instantaneously measures, records and displays dose rate and accumulated dose in real time

Up to four configurable dose and dose rate alarm settings

Optional extended range calibration up to 1 Sv/h where potential exists for emergency situations



Features:

- Clear and readable
- Simple and intuitive
- Reliable and accurate
- Flexible radiation protection
- IS certification

Easy to use and understand

Large, easy-to-read color display ensures vital information is clear, simple to understand and visible in any lighting scenario

A single button is used to navigate an intuitive carousel menu

Alarm settings trigger audible, visual, textual and haptic alerts

IS certification

PED2-IS and PED2-IS+ are ATEX certified. This European certification is given to equipment that is tested and approved to be intrinsically safe. Giving you the peace of mind that the IS certified PED2 range is able to safely measure radiation exposure in potentially explosive



environments.



Additional Services

To support optimal performance and compliance with regulatory standards, PEO offers the following services for this device:

- > Service
- > Maintenance
- > Calibration
- > Leakage Tests

These services are available through PEO.

For service appointments or contract options, please contact your PEO representative.

[Purchase Product](#)

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PED2 - ER (Personal Electronic Dosimeter) - Tracerco



An intrinsically safe certified personal electronic dosimeter, with handheld survey mode and enhanced features such as Bluetooth, GPS and pop-up message alarms

Features:

- Clear and readable
- Simple and intuitive
- Reliable and accurate
- Flexible radiation protection
- IS certification



Easy to use and understand

Large, easy-to-read colour display ensures vital information is clear, simple to understand and visible in any lighting scenario

A single button is used to navigate an intuitive carousel menu

Alarm settings trigger audible, visual, textual and haptic alerts

Flexible radiation protection

Instantaneously measures, records and displays dose rate and accumulated dose in real time

Up to four configurable dose and dose rate alarm settings

Optional extended range calibration up to 1 Sv/h where potential exists for emergency situations

IS certification

PED2-IS and PED2-IS+ are ATEX certified. This European certification is given to equipment that is tested and approved to be intrinsically safe. Giving you the peace of mind that the IS certified PED2 range is able to safely measure radiation exposure in potentially explosive environments.

PED2-IS (Personal Electronic Dosimeter) - Tracerco



Flexible radiation protection

Instantaneously measures, records and displays dose rate and accumulated dose in real time

Up to four configurable dose and dose rate alarm settings

Optional extended range calibration up to 1 Sv/h where potential exists for emergency situations



Features:

- Clear and readable transfective display enables use in dimly lit or sun-glare scenarios
- Responds promptly to small changes in radiation whilst also being capable of making accurate and reliable readings
- Intuitive single button operation
- Intrinsically safe for use in hazardous areas
- DoseVision™ companion software with optional cloud ecosystem

Easy to use and understand

Large, easy-to-read colour display ensures vital information is clear, simple to understand and visible in any lighting scenario

A single button is used to navigate an intuitive carousel menu

Alarm settings trigger audible, visual, textual and haptic alerts

IS certification

PED2-IS and PED2-IS+ are ATEX certified. This European certification is given to equipment that is tested and approved to be intrinsically safe. Giving you the peace of mind that the IS certified PED2 range is able to safely measure radiation exposure in potentially explosive environments.



PED-Blue (Personal Electronic Dosimeter) - Tracerco



PED-BLUE

Personal Electronic Dosimeter, PED-Blue

This dosimeter is a lightweight, non-IS PED. The device can be charged with a direct micro USB connection, so it's more flexible. This dosimeter can also be configured to use either two or four dose alarm levels and is customisable through DoseVision™ software.

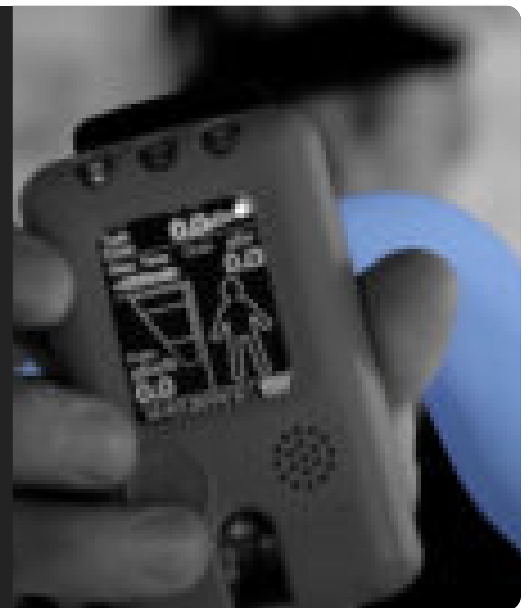
The PED Blue also has a task function where you can start and finish a task. After a task is finished you can look back by using DoseVision. This dosimeter is also perfect for clinical environments for example, because of its discreet alarm function.

The dosimeter gives the user immediate feedback so you'll know when the ambient dose is heightened.



BENEFITS OF THE PED BLUE:

- Robust and easy to use
- Direct micro USB connection for greater flexibility
- Large, clear, easy-to-read AMOLED display
- Light weight
- Used with DoseVision™ software ensures ease of use
- IP67 rated
- Simple one-button operation
- Four adjustable alarms
- Immediate detection



Tracerco Radiation Monitors <https://youtu.be/Rm9O7FOKeX0>



SCAN TO VIEW
VIDEO

For more info from Tracerco, take a look at [this page](#).

PED+ (Personal Electronic Dosimeter) - Tracerco



Radiation safety - simplified

Tracerco's range of personal electronic dosimeters (PEDs) are suitable for oil and gas, medical and life sciences, nuclear, CBRNe and emergency services, NDT, manufacturing and industrial, and environmental and waste management industries. We offer both intrinsically safe and non-intrinsically safe options for all needs.

PED+ (Personal Electronic Dosimeter) from Tracerco

The PED+ can be used as both a personal dosimeter and a handheld dose rate survey meter. It has a number of additional features, such as Bluetooth, GPS and pop-up message alarms.



Benefits of the PED+ include:

- Handheld mode allows the device to be used as a handheld survey meter
- Shows readings in dose rate (Sv or rem) and displays a live trend graph to show activity in real time
- Measurement is corrected for use off-body, so personal accumulated dose is not recorded
- Dose rate data is logged in off-body mode, allowing data review with DoseVision™
- Pop-up alert messages display clear instructions at alarm threshold
- Allows location data to be logged to the device alongside dose and dose rate data, that can be viewed using DoseVision™

Would you like to receive more information?

Contact PEO!

PED-ER (Personal Electronic Dosimeter) - Tracerco



PED-ER FROM TRACERCO

Personal Electronic Dosimeter with extended range

The PED-ER is a robust, light and user-friendly personal electronic dosimeter. You can use it to effectively monitor, measure and manage radiation exposure. This PED is the same as the PED-Blue from Tracerco, only the ER stands for Extended Range, so the range is bigger.

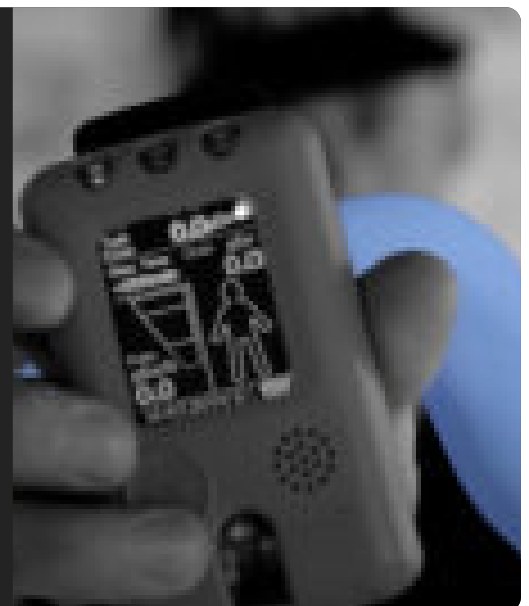
This personal electronic dosimeter has both audio and visual alarms with vibration. The dosimeter will alarm you when you reach your personally set radiation dose. Because of the extended dose range from the PED-ER, it can detect radiation up to 1 Sv/h.

This dosimeter is not only designed to be robust and lightweight, it's also designed to keep it simple. The device has a large and clear AMOLED display which is very user-friendly. When you use this dosimeter in combination with the accompanying software DoseVison, you can easily manage radiation doses.



BENEFITS OF THIS DOSIMETER:

- The dosimeter has an extended dose range of up to 1 Sv/h
- Large easily readable display and intuitive graphical user interface
- A reliable dosimeter, even for the most challenging radiation monitoring situations
- User-friendly design because of one-button operation
- The user can easily operate it without any training
- You can choose between audio and/or visual alarms, with optional vibration



Tracerco Radiation Monitors <https://youtu.be/Rm9O7FOKeX0>



For more information from Tracerco, take a look at [this page](#).

Would you like more information on PED's?

Contact PEO!

PED-ER+ (Personal Electronic Dosimeter) - Tracerco



Radiation safety - simplified

Tracerco's range of personal electronic dosimeters (PEDs) are suitable for oil and gas, medical and life sciences, nuclear, CBRNe and emergency services, NDT, manufacturing and industrial, and environmental and waste management industries. We offer both intrinsically safe and non-intrinsically safe options for all needs.

PED-ER+ (Personal Electronic Dosimeter) from Tracerco

The PED-ER+ provides the ultimate in radiation monitoring, measurement and management for those working in challenging environments. Ideal for use by industrial NDT workers, emergency services and first response teams (CBRNe).



Benefits of the PED-ER+ include:

- An extended dose rate range of up to 1Sv/h
- Weather, shock and drop-proof housing – ideal for rugged environments
- Large clear display
- Portable – can be used as both a personal dosimeter, and a handheld dose rate survey meter
- Pop-up message alarms when dose limits are reached

Would you like to receive more information?

Contact PEO!

Dosimeter software DoseVision™ and DoseVision™ Tracerco



The dosimeter PC software interface for the PED-IS PED Blue and PED+ is specifically designed for simplicity and interactivity. DoseVision™ allows users to set alarms and reports. This is to assign users to the PED, and download and analyze data.



advantages of DoseVision:

- cumulative dose rate data analysis
- peak dose rates
- data export and easily generate reports
- password protection
- software and firmware updates available for free
- easy management of PED users
- GPS data logging using the PED+

advantages of DoseVision Live™ :

- Bluetooth connectivity
- live dose rate data
- management control for up to 7 devices
- live status updates

DoseVision Live dosimeter software Tracerco



Polimaster is wereldwijd toonaangevend in oplossingen voor stralingsdetectie en -monitoring en biedt een uitgebreid scala aan instrumenten die zijn ontworpen om ioniserende straling in diverse omgevingen te detecteren, identificeren en meten. Hun productassortiment omvat handmonitoren, persoonlijke elektronische dosimeters, draagbare isotopeidentifiers, portaalmonitoren en mobiele detectiesystemen, allemaal ontworpen om te voldoen aan de strenge eisen van beveiliging, noodhulp en industriële toepassingen.

Product offering

**PM1703GNA-II MBT
Personal Radiation
Detector/Dosimeter**



**PM1703GNA-II/BT
Personal Radiation
Detector**



**PM1703MO-II BT
Personal Radiation
Detector/Dosimeter**



**PM1703MA-II/BT
Personal Radiation
Detector**



**PM1610B X-Ray and
Gamma Radiation
Personal Dosimeter**



**PM1610 X-Ray and
Gamma Radiation
Personal Dosimeter**



**PM1605BT Personal
Radiation
Monitor/Dosimeter**



**PoliSimeter™ ERB
Electronic Personal
Dosimeter**



PoliSimeter™ ER
Electronic Personal
Dosimeter



PoliSimeter™
Electronic Personal
Dosimeter



RadFlash® Electronic
Personal Dosimeter





PM1703GNA-II MBT Personal Radiation Detector/Dosimeter

Gamma-neutron Personal Radiation Detector/Dosimeter.

The **PM1703GNA-II MBT** is a **gamma-neutron** modification equipped with a **Bluetooth** module and a **Geiger-Mueller counter** for extended measurement of the **personal dose rate up to 200 mSv/h** and **personal dose up to 10 Sv**.

The **PM1703®-II series** of personal radiation detectors are extremely sensitive and robust devices that detect and locate even trace amounts of radioactive materials.

Equipped with a clip for multiple wearing options and easy to operate even for non-specialists, the PRDs became the perfect fit as Radiation Pagers for public security agencies, including border control, rescue teams, police, and anti-terrorist units, and first responders that need to quickly search for radioactive materials before and during public mass events.

Features

- ANSI N42.32-2016 and IEC 62401:2017 compliance
- NORM-suppression algorithm for differentiating color-coded alarms triggered by natural or man-made radiation materials
- Dedicated 0-9 scale mode with unitless dose rate indication allowing for ease of use and minimal training
- Personal dose accumulation up to 10 Sv
- Extended dose rate measurement ranges up to 200 mSv/h
- Operation in extreme temperatures from -40 °C to 50 °C
- Long-life alkaline or rechargeable battery for 800 hours
- Shockproof hermetic case IP65
- Audible, visual, and vibration alarms
- Free Polismart® iOS and Android app for advanced operation
- USB and Bluetooth communication



PM1703GNA-II/BT Personal Radiation Detector



Gamma-neutron Personal Radiation Detector.

The **PM1703GNA-II** is a **gamma-neutron** modification equipped with a high-sensitive scintillator for measurement of the **personal dose rate up to 300 μ Sv/h**.

The **PM1703®-II series** of personal radiation detectors are extremely sensitive and robust devices that detect and locate even trace amounts of radioactive materials.

Equipped with a clip for multiple wearing options and easy to operate even for non-specialists, the PRDs became the perfect fit as Radiation Pagers for public security agencies, including border control, rescue teams, police, and anti-terrorist units, and first responders that need to quickly search for radioactive materials before and during public mass events.

Features

- ANSI N42.32-2016 and IEC 62401:2017 compliance
- NORM-suppression algorithm for differentiating color-coded alarms triggered by natural or man-made radiation materials
- Dedicated 0-9 scale mode with unitless dose rate indication allowing for ease of use and minimal training
- Operation in extreme temperatures from -40°C to 50°C
- Long-life alkaline or rechargeable battery for 800 hours
- Shockproof hermetic case IP65
- Audible, visual, and vibration alarms
- Free Polismart® iOS and Android app for advanced operation
- USB and Bluetooth (PM1703GNA-II BT) communication



PM1703MO-II BT Personal Radiation Detector/Dosimeter



Gamma-only Personal Radiation Detector/Dosimeter.

The **PM1703MO-II BT** is a **gamma-only** modification equipped with a **Bluetooth** module and a **Geiger-Mueller counter** for extended measurement of the **personal dose rate up to 200 mSv/h** and **personal dose up to 10 Sv**.

The **PM1703®-II series** of personal radiation detectors (PRD) are extremely sensitive and robust devices that detect and locate even trace amounts of radioactive materials.

Equipped with a clip for multiple wearing options and easy to operate even for non-specialists, the PRDs became the perfect fit as Radiation Pagers for public security agencies, including border control, rescue teams, police, and anti-terrorist units, and first responders that need to quickly search for radioactive materials before and during public mass events.

Features

- ANSI N42.32-2016 and IEC 62401:2017 compliance
- NORM-suppression algorithm for differentiating color-coded alarms triggered by natural or man-made radiation materials
- Dedicated 0-9 scale mode with unitless dose rate indication allowing for ease of use and minimal training
- Personal dose accumulation up to 10 Sv
- Extended dose rate measurement ranges up to 200 mSv/h
- Operation in extreme temperatures from -40 °C to 50 °C
- Long-life alkaline or rechargeable battery for 1000 hours
- Shockproof hermetic case IP65
- Audible, visual, and vibration alarms
- Free Polismart® iOS and Android app for advanced operation
- USB and Bluetooth communication



PM1703MA-II/BT Personal Radiation Detector



Gamma-only Personal Radiation Detector.

The **PM1703MA-II** is a **gamma-only** Personal Radiation Detector (PRD) equipped with a high-sensitive scintillator for measurement of the **personal dose rate up to 300 $\mu\text{Sv/h}$** .

The **PM1703®-II series** of PRDs are extremely sensitive and robust devices that detect and locate even trace amounts of radioactive materials.

Equipped with a clip for multiple wearing options and easy to operate even for non-specialists, the PRDs became the perfect fit as Radiation Paggers for public security agencies, including border control, rescue teams, police, and anti-terrorist units, and first responders that need to quickly search for radioactive materials before and during public mass events.

Features

- ANSI N42.32-2016 and IEC 62401:2017 compliance
- NORM-suppression algorithm for differentiating color-coded alarms triggered by natural or man-made radiation materials
- Dedicated 0-9 scale mode with unitless dose rate indication allowing for ease of use and minimal training
- Operation in extreme temperatures from $-40\text{ }^{\circ}\text{C}$ to $50\text{ }^{\circ}\text{C}$
- Long-life alkaline or rechargeable battery for 1000 hours
- Shockproof hermetic case IP65
- Audible, visual, and vibration alarms
- Free Polismart® iOS and Android app for advanced operation
- USB and Bluetooth (PM1703MA-II BT) communication





PM1610B X-Ray and Gamma Radiation Personal Dosimeter

Extended range X-ray (continuous/pulsed) and gamma radiation personal dosimeter with replaceable battery.

The **PM1610B** model has an extended dose measurement range of up to 20 Sv and improved accuracy of the dose rate measurement. Instead of a rechargeable battery, this model is **powered by an AAA (LR03) battery** which is easy to replace, affordable, and safe to handle.

The **PM1610 series** of electronic personal dosimeters (**EPDs**) are intended for measurement of the personal dose equivalent $H_p(10)$ and personal dose equivalent rate $\dot{H}_p(10)$. The dosimeters are suitable for multiple applications providing the measurement of X-ray (continuous and pulsed) and gamma radiation in the wide energy range.

The **PM1610** dosimeters have unique features for operation in workplaces requiring the use of personal protective equipment or in a harsh environment, including a shockproof rubberized case, a high contrast display with a fluorescent backlight, and two big buttons for easy use even while wearing protective gloves.

- Easily replaceable long-life AAA battery: at least 480 hours
- Extended energy range: from 20 keV to 10 MeV
- Wide dose and dose rate measurement ranges
- Measurement of pulsed photon radiation
- Simple navigation with two large buttons
- Audible, visual, and vibration alarms
- USB communication with PC
- Shockproof hermetic case
- Small and lightweight





PM1610 X-Ray and Gamma Radiation Personal Dosimeter

X-ray (continuous/pulsed) and gamma radiation personal dosimeter.

The **PM1610 series** of electronic personal dosimeters (**EPDs**) are intended for measurement of the personal dose equivalent $H_p(10)$ and personal dose equivalent rate $\dot{H}_p(10)$. The dosimeters are suitable for multiple applications providing the measurement of X-ray (continuous and pulsed) and gamma radiation in the wide energy range.

The **PM1610** dosimeters have unique features for operation in workplaces requiring the use of personal protective equipment or in a harsh environment, including a shockproof rubberized case, a high contrast display with a fluorescent backlight, and two big buttons for easy use even while wearing protective gloves.

Features

- Long-life rechargeable battery: at least 650 hours
- Extended energy range: from 20 keV to 10 MeV
- Wide dose and dose rate measurement ranges
- Measurement of pulsed photon radiation
- Simple navigation with two large buttons
- Audible, visual, and vibration alarms
- USB communication with PC
- Shockproof hermetic case
- Small and lightweight





PM1605BT Personal Radiation Monitor/Dosimeter

Ambient dosimeter for use in extreme environments.

The **PM1605BT** electronic dosimeter is equipped with a Geiger-Mueller counter for extended measurement of the **ambient dose equivalent** and **ambient dose equivalent rate**. Instruments can search, detect, and locate radioactive sources, alert the user with audible, visual, and vibration alarms, and transmit stored data to a PC or smartphone.

The dosimeter is designed to withstand **extreme environmental conditions** such as limited visibility, raised noise, high temperatures, exposure to seawater, shock, and falls. Its control panel with two big buttons allows using protective gloves while operating the instrument.

The instruments are recommended for personal radiation protection of first responders, HAZMAT teams, civil defense, firefighters, and the other divisions that deal with radiological emergencies.

Features

- IP68 case for operation in extreme environmental conditions
- Highly visible LEDs on the front and top panels for alarm indication
- Removable clip for secure fastening to a belt or a pocket
- Large buttons suitable for use with protective gloves
- Operating temperature from -30 °C to 65 °C
- Ambient dose equivalent rate up to 10 Sv/h
- Ambient dose equivalent up to 100 Sv
- Bluetooth and USB communication
- Battery lifetime of at least 9 months
- Large and easy-to-read LCD



PoliSimeter™ ERB Electronic Personal Dosimeter



X-ray (continuous/pulsed) and gamma radiation personal dosimeter with an **extended range** of dose measurement and a replaceable **battery**.

PoliSimeter™ series of electronic personal dosimeters (EPDs) is the **next generation** of the well-known **PM1610 series** by Polimaster, which was a trusted solution on the market for nearly 15 years, with over 20,000 dosimeters sold. Building on the legacy of the PM1610, the PoliSimeter offers enhanced capabilities for the extended measurement of **personal dose Hp(10)** and **dose rate $\dot{H}_p(10)$** of both continuous and pulsed X-ray and gamma radiation. The PoliSimeter is designed to meet the latest industry requirements and features a USB-C port for convenient connectivity and data transfer.

PoliSimeter ERB model has an **extended range** of dose measurement of **up to 20 Sv** for use in high-radiation environments, providing critical safety and monitoring functionality. Instead of a rechargeable battery, this model is powered by an **AAA battery**, which is easy to replace, affordable and safe to handle.

Features

- Wide dose and dose rate measurement ranges
- Easily replaceable long-life AAA battery: 500 hours
- Measurement of pulsed photon radiation
- Simple navigation with two large buttons
- Audible, visual, and vibration alarms
- USB-C communication with PC
- Shockproof hermetic case
- Small and lightweight





X-ray (continuous/pulsed) and gamma radiation personal dosimeter with an **extended range** of dose measurement.

PoliSimeter™ series of electronic personal dosimeters (EPDs) is the **next generation** of the well-known **PM1610 series** by Polimaster, which was a trusted solution on the market for nearly 15 years, with over 20,000 dosimeters sold. Building on the legacy of the PM1610, the PoliSimeter offers enhanced capabilities for the extended measurement of **personal dose Hp(10)** and **dose rate $\dot{H}_p(10)$** of both continuous and pulsed X-ray and gamma radiation. The PoliSimeter is designed to meet the latest industry requirements and features a USB-C port for convenient connectivity and data transfer.

PoliSimeter ER model has an **extended range** of dose measurement of **up to 20 Sv** for use in high-radiation environments, providing critical safety and monitoring functionality.

Features

- Wide dose and dose rate measurement ranges
- Long-life rechargeable battery: 500 hours
- Measurement of pulsed photon radiation
- Simple navigation with two large buttons
- Audible, visual, and vibration alarms
- USB-C communication with PC
- Shockproof hermetic case
- Small and lightweight



PoliSimeter™ Electronic Personal Dosimeter



X-ray (continuous/pulsed) and gamma radiation personal dosimeter.

PoliSimeter™ series of electronic personal dosimeters (EPDs) is the **next generation** of the well-known **PM1610 series** by Polimaster, which was a trusted solution on the market for nearly 15 years, with over 20,000 dosimeters sold. Building on the legacy of the PM1610, the PoliSimeter offers enhanced capabilities for the extended measurement of **personal dose Hp(10)** and **dose rate $\dot{H}_p(10)$** of both continuous and pulsed X-ray and gamma radiation. The PoliSimeter is designed to meet the latest industry requirements and features a USB-C port for convenient connectivity and data transfer.

Features

- Wide dose and dose rate measurement ranges
- Long-life rechargeable battery: 500 hours
- Measurement of pulsed photon radiation
- Simple navigation with two large buttons
- Audible, visual, and vibration alarms
- USB-C communication with PC
- Shockproof hermetic case
- Small and lightweight



RadFlash® Electronic Personal Dosimeter



With RadFlash, the instant your radiation exposure increases, you know it. Continuous monitoring and custom alerts provide immediate, precise feedback, empowering you to react in-the-moment to changes in your exposure environment.

The dosimeter is capable of solving a wide range of personal dose monitoring tasks, including measurement of personal dose equivalent $H_p(10)$ and personal dose equivalent rate $\dot{H}_p(10)$ of X-ray (continuous and pulsed) and gamma radiation.

Only the best instant monitoring and alerts provide the safety professionals deserve. The RadFlash electronic personal dosimeter gives you immediate feedback, high precision, and unmatched flexibility. It's the perfect tool for minimizing risk and maximizing confidence.

Features

- Independent alarm thresholds for both dose and dose rate
- Automatic calculation of the safe stay time in the Polismart® app
- Compatible with real-time dosimetry systems
- Miniature, lightweight design
- Intuitive single-control button
- Bluetooth integration
- Wireless charging





Bertin Instruments is een wereldwijde leverancier van geavanceerde oplossingen voor stralingsdetectie en milieumonitoring, gespecialiseerd in draagbare monitoren, persoonlijke elektronische dosimeters, milieumonitoringsystemen en technologieën voor afval- en recyclingbeheer. Hun instrumenten zijn ontworpen om te voldoen aan de strenge eisen van nucleaire installaties, noodhulpdiensten en milieuagentschappen.

Product offering

Saphydose gamma i



Saphydose gamma i



Saphydose Gamma i is an operational dosimeter measuring radiation in real time (Hp (10) X and γ dose).

This dosimeter is designed for people working in a controlled area (nuclear power plant, fuel reprocessing plant, research center, hospital, non-destructive testing service, etc.) or likely to be exposed (army, police, fire brigade, etc.).

It is compliant with the IEC 61526 standard for measurement of personal dose equivalents. Reliable and ergonomic, the Saphydose Gamma i is appreciated for its sturdy aluminum housing, its high resistance to electromagnetic fields and its long time battery life. It can be used individually or as part of our dosimetry management system.





S.E. International, Inc. is een vertrouwde Amerikaanse fabrikant van stralingsdetectie-instrumenten onder het merk Radiation Alert®. Hun productassortiment omvat gebiedsmonitoren, draagbare meetinstrumenten en persoonlijke elektronische dosimeters – elk ontworpen voor nauwkeurige, realtime stralingsmonitoring in een breed scala aan toepassingen.

Product offering

**Radiation Alert®
Sentry EC**



**Rad-60 Alarming
Dosimeter**



Radiation Alert® Sentry EC



The Radiation Alert® Sentry EC is a personal alarming radiation dosimeter and rate meter, designed to safeguard personnel working in environments with potential X-ray or gamma exposure.

This pocket-sized unit features an energy-compensated tube for a linear gamma response and built-in memory for tracking accumulated exposure data. With the free SentryCom Software, you can easily generate incident reconstructions for analysis and set custom vibrating and audio alerts for dose ($>1.0 \text{ mR}/10 \text{ } \mu\text{Sv}$) and dose rate ($>1.0 \text{ mR/hr}/10 \text{ } \mu\text{Sv/hr}$).

An audio switch allows you to choose between audible clicks with each detected count or a discreet silent mode.



Rad-60 Alarming Dosimeter



The RAD-60 is a Personal Alarming Radiation Dosimeter. It's a precise and reliable instrument for ensuring the safety of personnel. Ideally, the RAD-60 is used in stand-alone conditions for everyday radiation monitoring. The RAD-60 can also be switched into System Mode, for the purpose of tracking Personnel Dose records and generating compliance reports.

The design includes state-of-the-art technology with built in memory for retrieving dose, even during power-down. It eliminates outside interference from shock and RF. The RAD-60 is easily programmed by the user, has a digital display, and operates with a single AAA alkaline battery.

With the push of a button, you can turn the unit on/off, change the digital display to read dose or dose rate, select from several dose and dose rate alarm levels, turn the chirp function on/off, reset the integrated dose, and perform battery tests. The large digital display gives instant dose or dose rate readings with a loud audible alarm.





Ludlum Measurements, Inc. is een vertrouwde wereldwijde leverancier van instrumenten voor stralingsdetectie en -monitoring en biedt robuuste, nauwkeurige oplossingen voor personeelsveiligheid, milieubescherming en beveiligingsscreening. Sinds 1962 wordt hun apparatuur wereldwijd gebruikt in toepassingen variërend van kernenergie en noodhulp tot grensbewaking en monitoring van kritieke infrastructuur.

Product offering

**Model 23-1 Electronic
Personal Dosimeter -
Ludlum**





Model 23-1 Electronic Personal Dosimeter - Ludlum

The Model 23-1 Electronic Personal Dosimeter (Ludlum) is a solid and lightweight (55.9 g/2 oz) pen-type personal dosimeter. It can be used for measuring gamma or X-ray radiation in medical and laboratory environments or other areas where personal radiation monitoring is desired or required.



Model 23-1 Electronic Personal Dosimeter features:

- 600 record data logging option available
- low weight and slim design
- audio alarm
- silicon semiconductor detector
- gamma and X-ray (35 keV to 3 MeV)

Read more about the Model 23-1 Electronic Personal Dosimeter on the [Ludlum website](#)

CZT & GAMMA CAMERA'S





3D PLUS is een toonaangevende leverancier van compacte, hoogwaardige beeldvormingssystemen op basis van geavanceerde CZT-technologie (Cadmium Zinc Telluride). Hun gammacamera's zijn ontworpen voor veeleisende toepassingen in de ruimtevaart, defensie en nucleaire sectoren en bieden nauwkeurige, real-time stralingsbeeldvorming in compacte, robuuste formaten.

Product offering

Spid-X





In collaboration with the French Atomic Energy Commission (CEA), the Spectro Imager Spid-X has been designed for nuclear safety applications such as radioactive waste monitoring, decommissioning, decontamination or emergency situations.

The device offers fine spectroscopic capabilities embedding ultra-low noise ASICs and CdTe crystal thanks to 3D PLUS electronic components miniaturization technology.

The Spid-X gamma camera allows locating, identifying and measuring the dose intensity of the various radioactive sources that can be found in a nuclear environment. Combined with the small size and lightweight of the device, it brings a fast and efficient diagnostic on site, and can help the decontamination process.

Features

- Identifies and locates the radioactive sources
- Measures the dose of the sources
- Small dimensions : 323 x 110 x 180 mm³
- Light Weight : < 3,5 kg
- Covers large range of energy
- Fine spectroscopic capabilities





Kromek Group plc is een wereldleider in geavanceerde stralingsdetectietechnologieën en is gespecialiseerd in compacte oplossingen met een hoge resolutie voor beveiligings-, defensie-, nucleaire en onderzoekstoepassingen. Kromek maakt gebruik van gepatenteerde Cadmium-Zinktelluride (CZT) halfgeleidertechnologie en levert een veelzijdig portfolio met handheld monitoren, draagbare isotopeidentifiers, CZT-gebaseerde gammacamera's en spectrometers van laboratoriumkwaliteit.

Product offering

Quant GR1



GR Series Gamma Spectrometers



TN15



Sigma 25/50



RayMon 10



K102



Quant GR1



The Quant GR1 is a complete mobile or benchtop solution for quantifying doses of Gamma radiation released by radionuclides. Its high resolution of $<2\%$ and count spectrum range of 4096 channels enables any isotope to be identified and its associated dose quantified, even from complex mixtures.

The ability to quantify radiation doses in real time eliminates the need for further analysis in the lab, as data can both be collected and processed on site, saving time and costs.



GR Series Gamma Spectrometers



A family of small and light CZT-based Gamma detector spectrometers!



The Kromek GR family is a range of CZT-based high-performance Gamma spectrometers. They are completely self-contained, with built-in preamplifier, shaping amplifier, baseline restorer, pulse height digitizer and HV supply. The digitised pulse heights of detected Gamma signals are sent to a computer via the USB. The unit is powered entirely from the USB bus, so no external power supply is needed.

Can be used for all Gamma radiation detection needs either straight out of the box or built into your own devices. The GR Gamma detectors can be mounted side by side in an array to give you coverage of a large area.

GR1/GR1+ Gamma spectrometer

- Perfect for most uses
- Energy resolution: < 2.5% FWHM @ 662 KeV
- USB output only
- 1 cm cubed CZT detector
- The plus model is available for those that need higher resolution:
- Energy resolution: <2.0% FWHM @ 662 KeV

GR1-A/GR1-A+ Gamma spectrometer

- For those that need extra outputs channels
- Energy resolution: < 2.5% FWHM @ 662 keV
- USB output
- Three MCX connectors that provide energy and timing outputs and gate inputs
- MultiSpect Analysis spectroscopy software included in the price
- 1 cm cubed CZT detector
- The plus model is available for those that need higher resolution:
- Energy resolution: <2.0% FWHM @ 662 KeV

GR05 Gamma spectrometer

- For use in a high-flux environment
- Energy resolution: < 2.5% FWHM @ 662 keV
- Max dose rate approximately 10mSv/hr
- USB output
- Smaller 0.125 cm cubed CZT detector
- For use in high-count (high-flux) environments



TN15



The Kromek TN15 is a robust, cost effective, self-contained, room temperature Neutron detector without Helium3. The detector surpasses the performance of a 100mm long 13mm³ He tube at 4 atmospheres and does not need cooling as it operates at room temperature.

This highly compact device is completely self-contained, with a built-in preamplifier, shaping amplifier, pulse discrimination, and HV supply.

The digitized neutron data is sent to a computer via the mini-USB which also powers the unit, so no external power supply is required; making the TN15 portable, creating a host of new ways to use and deploy neutron detectors.



Sigma 25/50



Available in two variations, Kromek's Sigma 25/50 Gamma ray detectors are highly sensitive, fast, and lightweight replacing conventional photomultiplier technology with state-of-the-art silicon photomultipliers (SiPMs).



The Sigma 25/50 Gamma detectors offer up to 32.8cm³ of detection volume, delivered in a package providing significant benefits in cost, size, weight, power consumption and temperature stability.

CsI(Tl) has a light output of 54 photons/keV and is one of the brightest scintillators known. As well as good Gamma photon stopping power this makes CsI(Tl) well suited for Gamma radiation detection.

Robust, Small & Lightweight

The Sigma 25/50 Caesium Iodide Scintillator Radiation detectors are perfect for radiation detection in the field and in the lab owing to their small size. If you need fast detection in an easy to use package this is what you need.

K-Spect & MultiSpect Analysis Integration

Kromek's Sigma 25/50 are available with both K-Spect and MultiSpect Analysis software which provide the spectrum acquisition, display, analysis, and storage functions.

Integration

Due to the discreet nature of the Sigma 25/50, these can be integrated into other systems. We've had them flying on drones and built into larger detector arrays.



RayMon 10

Een krachtige en robuuste draagbare gammadetector voor identificatie van radioactieve isotopen met hoge resolutie. De RayMon10 is een van de krachtigste en meest robuuste draagbare stralingsmonitors ter wereld. Het kan worden gebruikt voor het detecteren, meten en nauwkeurig identificeren van gammastraling uitzendende radionucliden, waardoor isotopenidentificatie met hoge resolutie mogelijk wordt gemaakt met behulp van de nieuwste vastestofdetectortechnologie van CZT. Het is een alles-in-één oplossing voor uw identificatiebehoeften voor gamma-radionucliden

Het kan een verscheidenheid aan rapporten uitvoeren, waaronder datum/tijd, handheld-ID van de gebruiker, foto- en audionotities, GPS-positionering, stralingsspectra en isotopenidentificatie.

Variaties in normale bedrijfsomstandigheden kunnen vaak de prestaties van de identificatie van radio-isotopen beïnvloeden. De geavanceerde één kubieke centimeter CZT coplanaire rasterdetector van de RayMon10 biedt stabielere prestaties dan detectoren van het scintillatietype





The Kromek K102 accepts amplified shaped pulses from detectors, digitizes the pulse heights, and sends the data to PC via the USB bus.

The Analyser is available with either Kromek's Windows based (7/8/10) K-Spect or MultiSpect Analysis software, which provide the spectrum acquisition, display, analysis, and storage functions.

It is powered through the USB bus so no external power supply is required.



DRAAGBARE ISOTOPENIDENTIFICATIE MIDDELEN





Kromek Group plc is een wereldleider in geavanceerde stralingsdetectietechnologieën en is gespecialiseerd in compacte oplossingen met een hoge resolutie voor beveiligings-, defensie-, nucleaire en onderzoekstoepassingen. Kromek maakt gebruik van gepatenteerde Cadmium-Zinktelluride (CZT) halfgeleidertechnologie en levert een veelzijdig portfolio met handheld monitoren, draagbare isotopeidentifiers, CZT-gebaseerde gammacamera's en spectrometers van laboratoriumkwaliteit.

Product offering

GR Series Gamma Spectrometers



D5 RIID



D3S ID



RayMon 10



AARM



GR Series Gamma Spectrometers



A family of small and light CZT-based Gamma detector spectrometers!



The Kromek GR family is a range of CZT-based high-performance Gamma spectrometers. They are completely self-contained, with built-in preamplifier, shaping amplifier, baseline restorer, pulse height digitizer and HV supply. The digitised pulse heights of detected Gamma signals are sent to a computer via the USB. The unit is powered entirely from the USB bus, so no external power supply is needed.

Can be used for all Gamma radiation detection needs either straight out of the box or built into your own devices. The GR Gamma detectors can be mounted side by side in an array to give you coverage of a large area.

GR1/GR1+ Gamma spectrometer

- Perfect for most uses
- Energy resolution: < 2.5% FWHM @ 662 KeV
- USB output only
- 1 cm cubed CZT detector
- The plus model is available for those that need higher resolution:
- Energy resolution: <2.0% FWHM @ 662 KeV

GR1-A/GR1-A+ Gamma spectrometer

- For those that need extra outputs channels
- Energy resolution: < 2.5% FWHM @ 662 keV
- USB output
- Three MCX connectors that provide energy and timing outputs and gate inputs
- MultiSpect Analysis spectroscopy software included in the price
- 1 cm cubed CZT detector
- The plus model is available for those that need higher resolution:
- Energy resolution: <2.0% FWHM @ 662 KeV

GR05 Gamma spectrometer

- For use in a high-flux environment
- Energy resolution: < 2.5% FWHM @ 662 keV
- Max dose rate approximately 10mSv/hr
- USB output
- Smaller 0.125 cm cubed CZT detector
- For use in high-count (high-flux) environments



D5 RIID



De D5 RIID biedt een uniek, krachtig en veelzijdig stralingsdetectieapparaat in een draagbaar pakket voor militair, binnenlandse veiligheids- en industrieel personeel.



De D5 RIID is een klein, licht, draagbaar radio-isotoopenidentificatieapparaat (RIID) met een resolutie van 3,5%, een uitgebreide bibliotheek met radio-isotopen en een ultralaag aantal valse alarmen. Het scant en identificeert voortdurend radiologische bedreigingen in realtime, zelfs in gemengde bronomgevingen.

De D5 RIID combineert een kleine vormfactor met krachtige radiometrische prestaties en verbeterde gevoeligheid bij een gemiddelde resolutie van 3,5%. De D5 RIID heeft een oppervlakte-efficiëntie die 62% hoger is in vergelijking met conventionele RIID's.

D5 RIID Overview <https://youtu.be/yi-uvo05nFg>



D5 RIID is de kleinste, lichtste met de ultieme detectieprestaties. Het heeft een resolutie van 3,5%, met een uitgebreide bibliotheek met radio-isotopen en een ultralaag aantal valse alarmen. Het scant en identificeert voortdurend radiologische bedreigingen in realtime, zelfs in gemengde bronomgevingen.

D3S ID



Een draagbare, camouflerbare gamma- en neutronendetector die de kracht van een RIID in een pakket ter grootte van een persoonlijke stralingsdetector (PRD) stopt. D3S ID is de nieuwe standaard in draagbare stralingsdetectoren.

De D3S ID is een krachtig, draagbaar, onopvallend en handsfree apparaat dat voortdurend scant op bedreigingen voor gamma- en neutronenstraling.



Kromek's D3S voldoet aan de databeveiligingsverwachtingen van overheden, inlichtingendiensten en veiligheidsautoriteiten. De D3S wordt standaard geleverd met een beveiligde smartphone (Android-bediening), waarop de exclusieve en beveiligde Kromek-detectorsoftware staat. In de Verenigde Staten wordt de D3S al veelvuldig gebruikt, bijvoorbeeld op brandweerwagens en ambulances of als area mapping systeem met 1.000 detectoren tijdens een 'speurtocht'. In Europa is de D3S de afgelopen jaren ingezet tijdens staatsbezoeken en NAVO-overleg om vroegtijdige radioactieve dreigingen op te sporen die aanwezig kunnen zijn in vracht, voertuigen, gebouwen, andere objecten en in het milieu.

Functies:

- Identificeert 37 isotopen (17 meer dan de huidige ANSI-standaard)
- Identificeert sneller dan een RIID
- Budgetvriendelijk in vergelijking met andere producten op de markt
- Klein formaat, draagbaar, past aan de riem
- Netwerkbaar



RayMon 10

Een krachtige en robuuste draagbare gammadetector voor identificatie van radioactieve isotopen met hoge resolutie. De RayMon10 is een van de krachtigste en meest robuuste draagbare stralingsmonitors ter wereld. Het kan worden gebruikt voor het detecteren, meten en nauwkeurig identificeren van gammastraling uitzendende radionucliden, waardoor isotopenidentificatie met hoge resolutie mogelijk wordt gemaakt met behulp van de nieuwste vastestofdetectortechnologie van CZT. Het is een alles-in-één oplossing voor uw identificatiebehoeften voor gamma-radionucliden

Het kan een verscheidenheid aan rapporten uitvoeren, waaronder datum/tijd, handheld-ID van de gebruiker, foto- en audionotities, GPS-positionering, stralingsspectra en isotopenidentificatie.

Variaties in normale bedrijfsomstandigheden kunnen vaak de prestaties van de identificatie van radio-isotopen beïnvloeden. De geavanceerde één kubieke centimeter CZT coplanaire rasterdetector van de RayMon10 biedt stabielere prestaties dan detectoren van het scintillatietype





Real-time locatie, meting en kartering van radioactiviteit vanuit de lucht met Kromek's drone-gebaseerde lading!



Wanneer het AARM-payloadsysteem van Kromek op een multirotor-dronemodel wordt gemonteerd, kan het worden gebruikt om snelle, gedetailleerde radiologische onderzoeken over grote gebieden uit te voeren. Het geavanceerde sensorsysteem van geïntegreerde stralings- en positie-sensoren maakt het mogelijk isotopische vingerafdrukken, tellingen per seconde en volledige spectrale gegevens te verzamelen en vervolgens elke seconde aan de gebruiker te leveren.

Gegevens worden ook in realtime gevisualiseerd in de vorm van een stralingswarmtekaart met meterresolutie op de iOS-gebaseerde app van AARM. Hotspots en anomalieën kunnen snel worden geïdentificeerd vanaf een veilige afstand, optimaal voor toepassingen zoals, maar niet beperkt tot, milieuonderzoeken en -monitoring, en voor het verbeteren van het situationeel bewustzijn en de snelle respons bij toepassingen op het gebied van nucleaire beveiliging.

Er zijn ook flexibele detector- en communicatieopties beschikbaar, wat de veelzijdigheid van het systeem vergroot. Dankzij cloudgebaseerde communicatie kunnen spectrale gegevens en tellingen per seconde overal ter wereld worden bekeken. Er zijn ook niet-cloudgebaseerde opties beschikbaar, waarbij ook gegevensopslag aan boord mogelijk is. De lading bevat de bewezen stralingsdetectiemogelijkheden van Kromek, met enkele of dubbele detectorconfiguraties van de GR1, SIGMA 50, TN15 of D3S. Het grote bereik van de bedrijfstemperatuur van het systeem vergroot de missie veelzijdigheid van het systeem verder, waardoor missies overal ter wereld mogelijk worden.





Polimaster is wereldwijd toonaangevend in oplossingen voor stralingsdetectie en -monitoring en biedt een uitgebreid scala aan instrumenten die zijn ontworpen om ioniserende straling in diverse omgevingen te detecteren, identificeren en meten. Hun productassortiment omvat handmonitoren, persoonlijke elektronische dosimeters, draagbare isotopeidentifiers, portaalmonitoren en mobiele detectiesystemen, allemaal ontworpen om te voldoen aan de strenge eisen van beveiliging, noodhulp en industriële toepassingen.

Product offering

PM1401K-3M
Multipurpose Hand-
Held Radiation
Monitor/Identifier



PM1401K-3P
Multipurpose Hand-
Held Radiation
Monitor/Identifier



PM1401K-3M Multipurpose Hand-Held Radiation Monitor/Identifier



PM1401K-3M model is a gamma-only radiation monitor without a neutron detector which is designed for quick and reliable measurement of gamma dose rate, detection of alpha, beta, and gamma sources, measurement of alpha and beta radiation flux density, acquisition of gamma spectra, identification of radioisotopes, and measurement of food/soil contamination with ^{137}Cs

Features

- Storage of up to 10000 events and 1000 spectra
- Audible, visual and external vibration alarm
- Categorization of identified radionuclides
- Shock and water resistant IP65 case
- Adjustable radionuclide libraries
- USB communication with PC
- Built-in GPS module

Applications

- Customs and border control
- HAZMAT and CBRNe teams
- Emergency services
- Police and security
- Industrial facilities
- First responders



PM1401K-3P Multipurpose Hand-Held Radiation Monitor/Identifier



Gamma-neutron model suitable for various radiation control tasks.

The **PM1401K-3 series** of radiation monitors comprises a wide range of all-in-one devices for radiation detection, dose rate, contamination measurements, spectrometry, and radionuclide identification.

The **PM1401K-3P model** is the **gamma-neutron model** suitable for various radiation control tasks, including measurement of ambient dose equivalent rate, detection of alpha, beta, gamma, and neutron sources, measurement of alpha and beta radiation flux density, acquisition of gamma spectra, identification of radioisotopes, and measurement of food/soil contamination with ^{137}Cs .

Features

- Storage of up to 10000 events and 1000 spectra
- Audible, visual, and external vibration alarm
- Categorization of identified radionuclides
- Shock and water-resistant IP65 case
- Adjustable radionuclide libraries
- USB communication with PC
- Built-in GPS module

Operation principle

The PM1401K-3P continuously measures ambient dose equivalent rate $\dot{H}^*(10)$ of photon radiation in the wide energy range, detects alpha, beta, gamma, and neutron radiation, measures alpha and beta radiation flux density, operates as a gamma radiation spectrometer and radioisotope identifier, and measures food/soil contamination with ^{137}Cs radionuclide.





Georadis s.r.o. is een gespecialiseerde fabrikant van geavanceerde instrumenten voor stralingsdetectie en -monitoring en biedt een uitgebreid scala aan oplossingen voor veld- en laboratoriumtoepassingen. Hun productportfolio omvat handheld monitoren, draagbare isotopenidentifiers, apparatuur voor omgevingsmonitoring en laboratoriumapparatuur, allemaal ontworpen om te voldoen aan de strenge eisen van professionals in sectoren zoals milieumonitoring, industriële veiligheid en openbare veiligheid.

Product offering

**RT-30 Gamma-Ray
Spectrometer with
Nuclide ID Capability
- Georadis**





RT-30 Gamma-Ray Spectrometer with Nuclide ID Capability – Georadis

The RT-30 Gamma-Ray Spectrometer with Nuclide ID Capability (Georadis) integrates a radiation survey meter, dose meter and radionuclide identification device in a weather protected, lightweight and easy to use instrument.



RT-30 Gamma-Ray Spectrometer with Nuclide ID Capability features:

- multiple functions; nuclide ID (isotope name), scan and search
- auto-stabilization
- protection: IP66
- single button operation
- sensitivity: Co-60: 270 cps/MBq, Cs-137: 160 cps/MBq, Am-241: 75 cps/MBq
- data interchange; Bluetooth or USB
- readout search mode; 0 – 65535 cps
- energy response: 20 keV to 3000 keV
- energy compensated dose rate: 0 – 10 mSv/h (with G/M detector)
- graphic LCD display; 128 x 64 pixels
- 2GB memory

Read more about the RT-30 Gamma-Ray Spectrometer with Nuclide ID Capability on the [Georadis website](#)

MILIEUMONITORING





Bertin Instruments is een wereldwijde leverancier van geavanceerde oplossingen voor stralingsdetectie en milieumonitoring, gespecialiseerd in draagbare monitoren, persoonlijke elektronische dosimeters, milieumonitoringsystemen en technologieën voor afval- en recyclingbeheer. Hun instrumenten zijn ontworpen om te voldoen aan de strenge eisen van nucleaire installaties, noodhulpdiensten en milieugroepen.

Product offering

**GammaTRACER
Spider Autonomous
Gamma Monitor for
Emergencies -
Saphymo**



**AlphaGUARD-Radon
Monitor - Bertin
Instruments**



**ShortLINK Short-
Range Environmental
Radiation Monitoring
Network - Bertin/
Saphymo**



**GammaTRACER
Autonomous
Radiation Monitoring
Probe - Saphymo**



**BAB E Air Monitoring
Beacon**



**SkyLINK Wide-Range
Environmental
Radiation Monitoring
Network - Bertin/
Saphymo**



**AlphaE - Bertin
Instruments**



**SpectroTRACER
Environmental
Radiation Monitor -
Saphymo**



**Skydose Dosimetry
System - Bertin
Instruments**



**Coriolis RECON -
Bertin Instruments**



**Coriolis Micro - Bertin
Instruments**





GammaTRACER Spider Autonomous Gamma Monitor for Emergencies - Saphymo

The GammaTRACER Spider Autonomous Gamma Monitor (Saphymo) has been designed to cover the needs of first responders in an emergency scenario. Based on the proven GammaTRACER design, the probe provides reliably the measurement of the gamma dose rate and wireless data transmission to the crisis center by means of SkyLINK radio or Iridium satellite modem.



GammaTRACER Spider Autonomous Gamma Monitor for Emergencies features:

- built-in battery for up to 5 years operation
- innovative self-erecting design, very fast deployment
- ultra compact design
- emergency proof communication options
- SkyLINK radio modem (up to 100 km/60 mi)
- satellite modem (Iridium)
- hermetically sealed weatherproof housing
- wide measurement range: 20 nSv/h up to 10 Sv/h
- can be used to quickly enhance density of existing monitoring networks

GammaTRACER Spider demo

AlphaGUARD-Radon Monitor - Bertin Instruments



Overview:

The complete product line provides all accessories for radon in air, water, soil, building materials, progeny, thoron and calibration equipment to perform air, water, soil, exhalation measurements. The collected data can be linked to the DataVIEW software, allowing data download and storage as well as professional data analysis and reporting. With AlphaGUARD, bring your Radon Lab everywhere.

AlphaGUARD incorporates a pulse-counting ionization chamber (alpha spectroscopy).

Based on optimal chamber geometry and intelligent signal evaluation, this radon monitor is suitable for continuous monitoring of radon concentrations between 2 - 2 000 000 Bq/m³.

The DSP (Digital Signal Processing) technology provides highly effective differentiation ability between "real" radon data and all kinds of artefacts.



Features:

- 0.62 L pulsed ionization chamber
- Measuring range of 2 to 2,000,000 Bq/m³,
- Instrument calibrator error of 3%
- Storage capacity of up to 60,000 measurement points
- Storage of:
 - 400 days at 10 min measuring cycle
 - 2,500 days at 60 min measuring cycle
- Battery life of 10 days (40 days with external battery)
- 329 mm x 355 mm x 123 mm and weighs 6,2 kg (13,7 lbs)

Your Radon Lab - Everywhere:

- AquaKIT
- Soil gas Probe
- AlphaPM
- AlphaPUMP / LabPUMP
- Emanation / Calibration Container
- Exhalation Box
- On line Radon in water monitoring
- Valve Selector
- DataVIEW PRO software

Benefits:

- Quality at the highest level
- Long-term stable calibration factor (guaranteed 5 years)
- Calibration traceable to different national standards (PTB, NIST, NPL)
- Inbuilt quality assurance system for permanent validation of system operation and data
- Fast transient response
- Automatic background correction
- No sensitivity to high air humidity

Reasons to choose ALPHAGUARD - RADON MONITOR:

- ✓ Reference instrument with high sensitivity
- ✓ Calibration stability guaranteed for 5 years
- ✓ High performance for versatile applications
- ✓ Maintenance-free operation

Gallery:



AlphaGUARD - Your Radon lab everywhere

<https://youtu.be/oJaaYf9-Pbl>



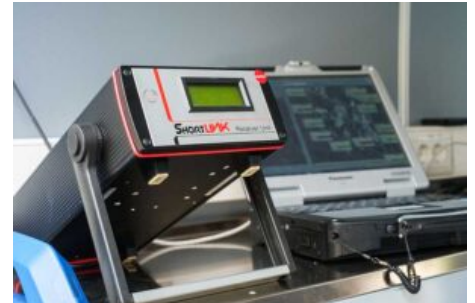
SCAN TO VIEW
VIDEO



ShortLINK Short-Range Environmental Radiation Monitoring Network - Bertin/Saphymo

The ShortLINK Wireless Communication System is a short-range, fully autonomous and private wireless network. You can use this system to transmit online data from connected low-power sensors or instruments to a central station. Unlike public cellular communication system standards (like GSM), this system is not dependant on the existence of an area covering cellular infrastructure. ShortLINK is generally installed in combination with a radiological network, like GammaTRACER and DataExpert supervision software.

If you want to know more about Bertin data transmission systems, take a look at [our partner's website](#)!



SHORTLINK WIRELESS COMMUNICATION SYSTEM FEATURES AND BENEFITS

- Very low power consumption
- Operating distance up to 5 km (3 mi)
- Turnkey installation
- Long-term maintenance-free operation
- Can withstand temperatures from -40°C to 60°C (-40°F to 140°F)



GammaTRACER Autonomous Radiation Monitoring Probe – Saphymo

The GammaTracer Autonomous Radiation Monitoring Probe from Bertin is designed to continuously measure, record, and transmit the environmental gamma dose rate. The probes continuously measure the gamma radiation dose.

Worldwide, there are more than 4.000 GammaTRACERs in operation.

The probes also offer a new dimension in wireless data collection. This is possible because the probes are equipped with a radio module, so you can use them with [SkyLINK](#) and [ShortLINK](#) for wireless data collection. GammaTRACER can store up to 12.800 data sets, depending on the probe type and measurement cycle.

The probe is available in four types: Basic, Wide, High and XL2.

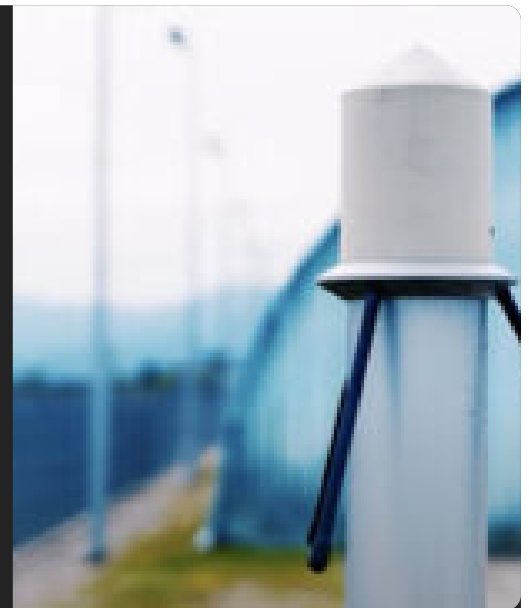


UNLIMITED AUTONOMY

The GammaTRACER is an autonomous radiation monitoring probe. The monitor's batteries allow maintenance-free, non-stop operation for up to five years, and with an extended battery pack, it will even last up to ten years! This is possible because of the energy-saving chip technology.

But, if you choose the internal solar panel, the autonomy can be unlimited!

They can also resist extreme climatic and environmental conditions because the probes are independent of any physical connections.



GAMMATRACER TYPES

GammaTRACER covers a broad range of radiation monitoring applications because there are multiple types available. The probes are deployable for multiple applications, for example nationwide monitoring, perimeter monitoring, and monitoring for nuclear facilities. The probes are not only suitable for routine, but also for emergency applications.

BASIC

The GammaTRACER Basic has a dose rate measurement range of 20 nSv/h to 10 mSv/h and an energy range of 45keV to 3MeV.

WIDE

The GammaTRACER Wide has a dose rate measurement range of 20 nSv/h to 10 Sv/h and just like the BASIC, also an energy range of 45 keV to 3 MeV.

HIGH

The GammaTRACER High has a dose rate measurement range of 1 mSv/h to 10 Sv/h and an energy range of 80 keV to 4,4 MeV.

XL2

The GammaTRACER XL2 has a dose rate measurement range of 10 nSv/h to 10 Sv/h and an energy range of 45 keV to 2 MeV. The XL2 type also has fast a response mode of 1 second.

ADDITIONAL OPTIONS

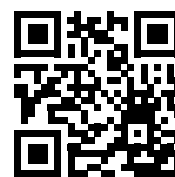
Even though the four GammaTRACE options already have a lot of features, there are also options you can choose from. All types can operate in temperatures ranging from -20°C (-4°F) to 50°C (122°F), but you can also choose for the option of -40°C (-40°F) to 60°C (140°F). Furthermore, you can choose additional sensors (rain, wind and weather), power supply by solar panels or a seismic qualified version.

BENEFITS & FEATURES

- Measures x-radiation and gamma radiation
- Measurement cycle, adjustable from 1 second to 120 minutes
- Battery lifetime up to ten years or even unlimited with solar panels
- Can store up to 12.800 data sets
- Type approval in several countries
- Maintenance-free
- Non-stop operation
- Easy to install

If you want to read more about GammaTRACER, take a look at [our partner's website!](#)

<https://youtu.be/59D0HZs64zw>



SCAN TO VIEW
VIDEO

If you have any questions...

Contact PEO!

BAB E Air Monitoring Beacon



The BAB-E fixed beacon is used for continuous monitoring of artificial Alpha and Beta aerosols, in Gamma environments as well as in the presence of natural Radon descendants. It has a double cover that allows it to withstand the most extreme climatic conditions for uninterrupted use outdoors (territorial surveillance, nuclear infrastructures, etc.). The data collected by the BAB-E can be accessed remotely and in real time on the DataEXPERT supervision software.

Features

- Can be used in controlled areas with high gamma background
- Compensation of radon progenies
- Use of standard sources for efficiency controls
- Ruggedized, can be used on dismantling and purification sites
- Available as stationary or mobile version
- Can be connected to a central monitoring network and trigger a general alarm

Technology

- The radioactive dust is deposited by air suction on a filter paper placed in the BAB beacons.
- The suction flow rate is about 5 m³/h (it depends on dustiness and type of filter paper).
- The flow rate is calculated from the depression measured between the filter and the pump. This allows to detect any tear or dust clogging.
- Placed one centimeter above the sample, the detection system is based on two 300 µm thick silicon diodes with a surface of 360 mm².
- The analog signal from the two diodes is amplified by a preamplifier with an output range of about 30mV/MeV.
- An amplifier increases the signal amplitude to 0.7V/MeV, and the signal is then used to produce the energy spectrum via an amplitude analyzer that encodes information to 512 channels.



SkyLINK Wide-Range Environmental Radiation Monitoring Network – Bertin/ Saphymo



The SkyLINK Wireless Communication System is a wide-range, fully autonomous and private wireless network. You can use this system to transmit online data from connected low-power sensors or instruments to a central station. Unlike public cellular communication system standards (like GSM), this system is not dependant on the existence of an area covering cellular infrastructure. The system generally includes a radiological network like GammaTRACER probes and the DataExpert supervision software.

For more information about Bertin Data Transmission systems, take a look at [our partner's website!](#)

The system structure allows its use in every situations, even in the most accidental ones (private wireless communication network and easy-to-install autonomous probes).



SKYLINK WIRELESS COMMUNICATION SYSTEM FEATURES

- Very low power consumption
- Operating distance up to 100 km (60 mi)
- Private network, so no regular transmission fees
- Easy interface to external instruments or host processors
- Turnkey system installation
- Long-term maintenance-free operation

<https://youtu.be/59D0HZs64zw>



SCAN TO VIEW
VIDEO

AlphaE - Bertin Instruments



AlphaE is an electronic handheld device for fast and time-resolved radon monitoring in buildings, outdoors and mines. Typically, 80 % of the final result is achieved after 2 hours (faster response for higher values). Due to its ultra-lightweight design and sophisticated features, AlphaE is highly suitable also for surveying the personal radon exposure and dose at workplaces.



The AlphaE's favourable price-performance ratio makes it also interesting for service companies engaged in radon assessment and mitigation as well as for users in private homes. Up to 6 months battery life allows long-term measurement without mains power. Permanent operations via mains supply are possible via USB port.

Advantages AlphaE

- ultra-lightweight design
- sophisticated features
- wide measuring range for professional use
- up to 6 months autonomy
- suitable software included

Download the datasheet or contact our product specialist.

SpectroTRACER Environmental Radiation Monitor - Saphymo



SpectroTRACER is a continuous environmental radiation monitor for spectroscopy to measure very low gamma contamination (water: SpectroTRACER AQUA).



The SpectroTRACER produces a spectroscopic analysis of the detected nuclides identification. The SpectroTRACER is used for the measurement of radioactivity when a standard gamma dose rate monitor is not efficient enough and when it is necessary to discover the nature of the gamma radiation.

SpectroTRACER Environmental Monitor features:

- working temperature: -20 ° C to + 50 ° C. / option: -30 ° C to + 60 ° C
- max. 100 meters under water (SpectroTRACER -AQUA)
- IP68 certified
- relative humidity: 100%
- integrated sensors for temperature and humidity

Skydose Dosimetry System - Bertin Instruments



Skydose is an operational dosimetry system, designed to measure & monitor, in real time, the ambient dose level received by response teams in high exposure areas.



The operational dosimetry system Skydose consists in eight Saphydose γ RT teledosimeters, one Personal Digital Assistant (PDA), one Easydose configuration software, one Saphyr portable reader, as well as one to three RT-ZB05 routers.

The Skydose system is part of an ongoing approach based on the reduction of both collective and individual doses, in compliance with the ALARA principle (As Low As Reasonably Achievable). By optimizing the exposition to ionizing radiation, it aims at improving the operators' conditions of intervention, who will thus be able to focus safely on the objectives of their mission. The Skydose system only takes a **few minutes to install**. Thanks to the PDA, it ensures the in-field monitoring of an eight-person team equipped with Saphydose γ RT teledosimeters using mesh networking.

Flexible & robust, the Skydose system can reliably cover an entire infrastructure (a nuclear power plant, for example), thanks to one or more RT-ZB05 dedicated routers.

Fast & easy to deploy, the Skydose system can be used by operators, first-responders & non-specialists, inside & outside the risk areas.

Features

- easy and quick setting even by non-specialized staff
- automatic network synchronization
- suitable for indoor and outdoor use including reactor buildings
- suitable for emergency situations (sturdy - high dose and dose rate range)
- real-time hotspots detection to reduce the mission dose received by workers
- compliant with use in nuclear facilities (CEI 61526)
- low maintenance costs
- real-time, remote & simultaneous monitoring of the Saphydose γ RT dosimeters, for the team to react immediately in case of emergency
- the Skydose system can be installed and configured in a few minutes, and be safely stored in a ruggedized pelicase - several systems can operate simultaneously, without interference

Specifications

- detector: 2 energy-compensated silicon diodes
- energy range: **from 50 keV. to 7 MeV!**

- dose rate measurement range: 0.5 μ Sv. to 9,999.99 mSv
- dose measurement range: 1 μ Sv. to 9,999.99 mSv
- alarms: sound & visual
- battery lifetime in operation: 4,000 hours
- radio range: 300 m



De Coriolis RECON is een draagbare, lichte en robuuste bio-luchtmonsternemer voor de detectie van biologische oorlogsagentia, bedoeld voor CBRN-teams of eerstehulpverleners, met snelle inzet in geval van een gebeurtenis met verdenking van een biologische aanval. De Coriolis RECON zijn ontworpen om grote concentraties aerosolen te verzamelen in het ademende bereik van 0,5 tot 10 μm met een luchtstroomsnelheid van 600 l/min, waardoor ze representatiever zijn voor het milieu dan traditionele bio-aerosolmonsternemers.

Dankzij het vermogen om bio-aërosoldeeltjes in vloeibaar formaat te verzamelen, kan dit systeem worden gebruikt met snelle identificatietechnieken voor biologische agentia (immunoassay, PCR, enz.) om vroegtijdig te waarschuwen voor vernevelde biologische oorlogsmiddelen.



Introductievideo

Voordelen Coriolis RECON

- de meest efficiënte concentratie van biologische oorlogsvoering
- hoge luchtstroomsnelheid
- compatibel met eventuele stroomafwaartse experimenten voor snelle identificatie
- biobewaking met langdurige monitoring – tot 6 uur
- snelle inzet in een militaire/erstehulpcontext

Download de datasheet of neem contact op met onze productspecialist.



Coriolis μ is een innovatieve biologische luchtmonsternemer voor de beoordeling van bioverontreiniging, voornamelijk bedoeld voor luchtkwaliteitscontrole en luchtkwaliteitsmonitoring in onderzoek naar milieu en vervuiling, de farmaceutische, voedings- en veterinaire industrie, de biomedische en gezondheidsomgeving... Gebaseerd op een cycloontechnologie, gecombineerd met een hoog luchtdebiet, biedt Coriolis μ de meest efficiënte deeltjesopvang in 10 minuten. De biologische deeltjes zoals toxines, virussen, bacteriën, schimmels, pollen en sporen worden verzameld en geconcentreerd in een vloeistof, klaar om te worden geanalyseerd met microbiologische, cellulaire en moleculair biologische methoden.



Introductievideo

Voordelen Coriolis Micro

- de meest efficiënte concentratie van biologische deeltjes
- hoge luchtstroomsnelheid en optie voor langdurige monitoring – tot 6 uur
- compatibel met alle vervollexperimenten – deelbare monsters voor meerdere parallele analyses
- flexibele vloeistofmonsteruitvoer
- geen verzadiging van de verzamelmedia voor een geladen omgeving

Download de datasheet of neem contact op met onze productspecialist.



Ludlum Measurements, Inc. is een vertrouwde wereldwijde leverancier van instrumenten voor stralingsdetectie en -monitoring en biedt robuuste, nauwkeurige oplossingen voor personeelsveiligheid, milieubescherming en beveiligingsscreening. Sinds 1962 wordt hun apparatuur wereldwijd gebruikt in toepassingen variërend van kernenergie en noodhulp tot grensbewaking en monitoring van kritieke infrastructuur.

Product offering

**Model 3101 Portable
Tritium in Air Monitor**



**Model 334AB-G
Alpha-Beta
Particulate Monitor**



**Model 334A Alpha Air
Monitor**



**Model 3100 Portable
Tritium in Air Monitor**





Model 3101 Portable Tritium in Air Monitor

The Model 3101 Tritium in Air Monitor features ruggedized and flexible operation. It is powered by rechargeable internal NiMH batteries and/or an external +12 Vdc power supply. It features a maintenance-free diaphragm air pump to pull air through the 250 cc tritium chamber, and the air flow is measured internally with a mass-air flow sensor. A second 250 cc chamber is used to provide gamma compensation, allowing operation in higher gamma fields. Other internal sensors measure temperature and ambient pressure and provide compensation for these effects.

The heart of the tritium detection is the sealed electrometer chamber, using the latest low-noise electrometer chip. This electrometer can reliably measure the femtoamperes of current resulting from tritium within the chamber and does not require the user to adjust an offset or zero knob. The pixelated digital display provides feedback on the tritium concentration, as well as showing status on several important conditions: temperature, pressure, power, airflow, chamber bias, and alarm or failure status.

The Model 3101 is easy to use, having only a few simple controls, and can be used while wearing gloves. It has a large easy-to-read display with a backlight control for increasing contrast in low-light conditions. In addition to the tritium level, the display simultaneously shows the user the battery/power condition, the temperature, the pressure, the status condition, and the airflow through the chamber.

The Model 3101 is built for ruggedness and reliability. Two airflow pumps were tested and shown to last over 10,000 hours of continuous use. The Model 3101 shares many of the characteristics and design of the Model 3100, which was built and tested for the U.S. military. Testing was done in accordance with ANSI N42.30, MIL-STD-810G, MIL-STD-461G, MIL-STD-901D, and MIL-STD-1399-300B standards which test instrument operation under various conditions including temperature, blowing rain, salt fog, vibration, mechanical shock, RF susceptibility, and RF emissions. The commercial user of the Model 3101 benefits from this design and testing history.

Features

- No Zero Adjust Control Needed
- Easily Calibrated with ^{137}Cs Gamma Range
- Temperature and Altitude Compensation



- “Check Mode” Self-Test Feature Determines Instrument State of Health
- Digital Backlit Display with Status, Airflow Readout, and Diagnostic Information
- Internal Heater Element Purge Mode to Dry Ion Chamber
- Readout in $\mu\text{Ci}/\text{m}^3$ or MBq/m^3

Model 334AB-G Alpha-Beta Particulate Monitor



The Model 334AB-G (a replacement for the Model 334AB) is a lightweight, battery-powered, alpha-beta air monitor that can be used as a portable workplace monitor or a portable CAM (continuous air monitor) for emergency-response assessments. Its design provides workers with an early warning of an airborne release of alpha- or beta-emitting particulates. The instrument can monitor up to two alpha isotopes of interest simultaneously with beta monitoring.

The Model 334AB-G has an internal 7-LPM pump. (An external pump with a higher flow rate is available as an option.) The integrated LCD and touchscreen displays information on instrument status and readings during operation. The estimated dose of the isotope(s) of interest and the instrument status are displayed at all times. A visual/audio alarm stack also indicates instrument status. An ion-implanted silicon detector and 1024-channel multi-channel analyzer feed data to the embedded processor board to perform beta detection and alpha spectral analysis for radon background compensation.

Background Subtraction Using Peak Shape Fitting

State-of-the-art alpha peak fitting quantifies the alpha and beta counts from radon and thoron progeny. This technique uses the profiles of multiple alpha isotope peaks to create a composite curve which best fits the actual alpha spectrum. Because the individual radon peaks are independently determined, the beta background compensation is impervious to radon equilibrium changes and contributes to low probability of false alarms.

Guard Detector

An internal guard detector provides real-time beta compensation for changing gamma background levels. An adjustable gamma subtraction factor allows for correction of slight differences in beta and guard count rate in a fixed gamma field to produce proper energy response.

Sensitivity and Response Time

The Model 334AB-G's sensitivity varies primarily as a function of the window time. The longer Chronic Window has improved sensitivities over the shorter Acute Window time. Sensitivity is reported in Minimum Detectable Concentration (MDC) in Bq/m^3 (DAC) and Minimum Detectable Dose (MDD) in Bq-h/m^3 (DAC-h).



Features

- Integrated LCD and Touch Screen Display
- Acute and Chronic Dose, Concentration, and Flow Logging Measurements
- Radon Compensation
- Built-In Gamma Guard Detector
- American or SI Units of Measurement
- 8-Hour Battery Life

Model 334A Alpha Air Monitor



The Model 334A is a compact, lightweight, and portable alpha air monitor designed to function both as a workplace monitor and a Continuous Air Monitor (CAM) for measurements in emergency response situations. Its functionality is enhanced by its splash- and dust-proof enclosure with splash-proof electronics.

Spectral analysis is conducted via a 1024-channel analyzer that feeds data to the embedded processor. Factory configuration provides either special nuclear materials (SNM) or radon progeny measurements of potential alpha energy concentration (PAEC).

Measurements may be taken in both fast-responding (Acute) or high-sensitivity (Chronic) assessments, and report in English or SI units. The Model 334A stores acquired data in comma-separated-variable (.csv) format that is recognized by most spreadsheet and database software. Data may be saved in the instrument's internal memory, or alternately may be written to an SD card for later retrieval and review.

Independent determination of nuclide peaks means they are impervious to radon equilibrium changes, thereby contributing to low probabilities of error and false alarms. Precise fitting of the ^{218}Po tail results in excellent sensitivity.

This Model 334A features an integrated LCD and touch screen that displays information on instrument status and readings during operation. The estimated dose of the isotope(s) of interest and instrument status is displayed at all times. A window below may be switched from showing historical readings and battery status, or displaying the current spectrum.

Factory-configurable Radon Mode allows the instrument to monitor potential-alpha-energy-concentration (PAEC) of radon progeny.

Features

- Easy Setup and Use
- Integrated LCD and Touch Screen Display
- English or SI Units of Measurement
- Acute and Chronic Dose Modes
- Significantly Reduced False Alarms Using Peak Shape Fitting Capability
- 8-Hour Battery Life
- Radon Mode Option



Model 3100 Portable Tritium in Air Monitor



De Model 3100 Tritium in Air Monitor beschikt over een robuuste en flexibele bediening. Hij kan worden gevoed door 115 Vac, 50/60 Hz of door oplaadbare interne NiMH-batterijen. Het beschikt over een onderhoudsvrije membraanluchtpomp om lucht door de tritiumkamer van 250 cc te trekken, en de luchtstroom wordt intern gemeten met een luchtmassameter. Een tweede kamer van 250 cc wordt gebruikt voor gammacompensatie, waardoor werking in hogere gammavelden mogelijk is. Andere interne sensoren meten de temperatuur en de omgevingsdruk en compenseren deze effecten.



Funcities

- Geen nulafstelling nodig
- Gemakkelijk gekalibreerd met ^{137}Cs gammabereik
- Temperatuur- en hoogtecompensatie
- Zelftestfunctie "Check Mode" bepaalt de status van het instrument
- Digitaal verlicht display met status, luchtstroomuitlesing en diagnostische informatie
- Spoelmodus om de ionenkamer te drogen
- Interne kamer met vervangbaar droogmiddel
- Geslaagd voor Amerikaanse militaire tests, waaronder: MIL-STD-810G, MIL-STD-461G, MIL-STD-901D, MIL-STD-1399-300B
- Uitlezing in $\mu\text{Ci}/\text{m}^3$ of MBq/m^3

Het hart van de tritiumdetectie is de afgesloten elektrometerkamer, die gebruik maakt van de nieuwste geluidsarme elektrometerchip. Deze elektrometer kan op betrouwbare wijze de femtoampère van de stroom meten die het gevolg is van tritium in de kamer en vereist niet dat de gebruiker een offset- of nulknop hoeft aan te passen. Het gepixelde digitale display geeft feedback over de tritiumconcentratie en toont de status van verschillende belangrijke omstandigheden: temperatuur, druk, vermogen, luchtstroom, kamervoorspanning en alarm- of storingsstatus.

Model 3100 is gemakkelijk te gebruiken, heeft slechts een paar eenvoudige bedieningselementen en kan worden gebruikt terwijl u handschoenen draagt. Dankzij een helder venster kan de gebruiker de toestand van het droogmiddel in de geïntegreerde droogmiddelkamer zien. Met een tuimelschakelaar kan de gebruiker de droogmiddelkamer in lijn met de binnenkomende lucht zetten. Het instrument wordt geleverd in een robuuste commerciële koffer met wandmontagebeugels. Model 3100 heeft de Amerikaanse militaire tests doorstaan voor RF-gevoeligheid en -emissie, schokken en trillingen, temperatuur en slagregen, evenals andere tests.



SDEC France is een gespecialiseerde fabrikant van milieumonitoring en laboratoriumapparatuur en biedt complete oplossingen voor afval- en recyclingbeheer, milieumonitoring en laboratoriumtoepassingen. Met meer dan 30 jaar ervaring ontwerpt en produceert het bedrijf hoogwaardige instrumenten ter ondersteuning van professionals in milieuwetenschappen, landbouwkunde en radiologische veiligheid.

Product offering

AM 3000 N - Air Sampler for Asbestos Diagnosis in Nuclear Environments - NF43-050 version 2021, NF X43-269, NF EN ISO 13137



AM 3000 - Air Sampler for Asbestos Diagnosis - NF43-050 version 2021, NF X43-269, NF EN ISO 13137



Battery Operated Field Electric Vacuum Pump PAV 2000 : For soil sampling



AS 5000 Aerosol & Iodine Sampler - SDEC



AS 3000 AEROSOL & IODINE SAMPLER - SDEC





AM 3000 N – Air Sampler for Asbestos

Diagnosis in Nuclear Environments – NF43-050

version 2021 , NF X43-269, NF EN ISO 13137

- **AUTONOMOUS SAMPLING:** The AM 3000N ensures consistent and reliable air sampling without manual intervention.
- **HIGH PRECISION:** Equipped with a pump automatically regulated by a microcontroller and a mass flow meter for increased accuracy.
- **REMOTE CONTROL:** Controllable remotely via an infrared remote control for user convenience.
- **ROBUST & WATERPROOF:** Stackable device with an IP65 protection rating, resistant to harsh environments.
- **PROTECTION AGAINST NUCLEAR CONTAMINATION:** H13 white glass fiber THE filters at intake and exhaust to prevent contamination.
- **CERTIFIED COMPLIANCE:** Complies with NF43-050 version 2021, NF X43-269, NF EN ISO 13137 standards, ensuring reliability and adherence to standards.





AM 3000 - Air Sampler for Asbestos Diagnosis - NF43-050 version 2021, NF X43-269, NF EN ISO 13137

- **AUTONOMOUS SAMPLING:** The AM 3000 is an autonomous air sampler, ensuring consistent and reliable sampling without manual intervention.
- **HIGH PRECISION:** Equipped with a pump whose flow rate is automatically regulated by a microcontroller and a mass flow meter.
- **REMOTE CONTROL:** Can be remotely operated using an infrared remote control, enhancing user convenience.
- **ROBUST & WATERPROOF:** The device is robust, stackable, and has an IP65 protection rating, ensuring its durability and resistance to environmental factors.
- **CERTIFIED COMPLIANCE:** Meets the strict requirements of NF43-050, NF X43-269, and NF EN ISO 13137 standards, ensuring its reliability and adherence to industrial norms.





Battery Operated Field Electric Vacuum Pump PAV 2000 : For soil sampling

- **RAPID VACUUM CREATION:** Achieves a vacuum of -750 mbar in less than 15 seconds, significantly speeding up soil sampling.
- **HIGH AUTONOMY & PORTABILITY:** Offers 5 hours of continuous operation with a lightweight and durable aluminum design for convenience in the field.
- **INTEGRATED SMART CHARGING SYSTEM:** Includes a maintenance-free 12V, 5A/hour battery with a smart charger for easy recharging.
- **PRECISION & PROTECTION:** Equipped with an accurate Bourdon-type manometer and a Gore-Tex filter to guard against water ingress.
- **COMPACT & EASY TO USE:** Compact dimensions (200mm x 130mm x 240mm) with a simple three-position operational switch.



AS 5000 Aerosol & Iodine Sampler - SDEC



De AS 5000 Aerosol & Iodine Sampler (SDEC) is een stationair apparaat dat is gemaakt voor het bemonsteren van aerosolen en jodium in de lucht met een hoge stroomsnelheid op papieren filters en cartridges. Het is met name geschikt voor continue bemonstering in stapels volgens de ISO 2889-norm.



Kenmerken van de AS 5000 Aerosol & Jodium Sampler:

- automatische luchtstroomregeling tot 100 liter per minuut (6 Nm³/h)
- massaflowmeter met druk- en temperatuurcompensatie: weergave van de luchtstroom in Nm³
- bemonsteringscompartiment en elektrisch gescheiden
- detectie van filterverstopping of onbedoelde lekkages
- veiligheid: toegangsdeur voor bemonsteringskop met sleutelslot, differentieelschakelaar
- alarmmelding via relaisuitgang, (optionele Ethernet-uitgang)
- instellingen voor bemonsteringsparameters en drempel voor verstoppingsniveau beschermd door toegangscode
- stationaire installatie (wandmontage) of mobiele installatie op trolley

Lees meer over de AS 5000 Aerosol & Iodine Sampler op de SDEC-website



De AS 3000 Aerosol & Iodine Sampler (SDEC) is ontworpen voor het bemonsteren van aerosolen en jodium op filterpapier en/of koolstofpatronen. Het heeft veel technologische innovaties, zoals de automatische regeling van de luchtstroom en het gegevensrapport op USB-sleutel.



Kenmerken van de AS 3000 Aerosol & Jodium Sampler:

- automatische regeling van de luchtstroom van 10 tot 50 LPM
- membraanpomp (geen onderhoud)
- compatibel met alle papieren filters en cartridges
- automatische herkenning van filterpapier of cartridge per drive scanneroptie
- onafhankelijke pomp (eenvoudige demontage bij vervuiling)
- installatie van de filterhouder door snelsysteem op horizontale of verticale as
- werkt op voeding of batterij
- waterdicht toetsenbord

Lees meer over de AS 3000 Aerosol & Jodium Sampler op de SDEC-website



Georadis s.r.o. is een gespecialiseerde fabrikant van geavanceerde instrumenten voor stralingsdetectie en -monitoring en biedt een uitgebreid scala aan oplossingen voor veld- en laboratoriumtoepassingen. Hun productportfolio omvat handheld monitoren, draagbare isotopenidentifiers, apparatuur voor omgevingsmonitoring en laboratoriumapparatuur, allemaal ontworpen om te voldoen aan de strenge eisen van professionals in sectoren zoals milieumonitoring, industriële veiligheid en openbare veiligheid.

Product offering

**GT-40 Gamma Ray
Spectrometer**



GT-40 Gamma Ray Spectrometer



A multifunctional gamma ray spectrometer for rapid determination of activities of gamma emitters in field surveys or samplings. A wide range of applications in the field of monitoring heterogeneous substances, contamination of sites, buildings, objects, water and food. Application in geology in field surveys for raw material sources. Proven performance in harsh environment applications. Survey data is stored in the memory, including the GPS coordinates. Up to 6 different calibrations.

Properties

Portable digital gamma ray spectrometer with a built-in computer for complex analysis of the measured data. Bluetooth, Wi-Fi and GPS are an added advantage. Transreflective colour display.

Use

Applicable wherever it is necessary to quickly and accurately determine the activities/content of gamma emitters. Suitable for field survey measurements, but also to be incorporated into shielding.

Modification

The GT-40 series is provided with a NaI/Tl scintillator with a 3" base diameter and 3" height. A GT-40S model is also manufactured, which is fitted with either a NaI/Tl or BGO detector with a 2" base diameter and 2" height at the customer's request. The GT-40S model has a built-in 1 cm thick Pb collimator. The collimator is easily removable.

Specification

Two basic working modes: Survey, for terrain scanning, and Assay, for determining concentrations of precalibrated radionuclides, i.e. components. Energy calibration of the analyzer is carried out continuously throughout the operating time, and only natural background sources are used for the set-up. Monitoring and analysis results are displayed on a color graphic display in a well-arranged manner. All acquired data is stored in the unit's memory and can be exported to other devices via USB, Wi-Fi or Bluetooth. Field observations can be recorded and stored along with each measurement using a built-in voice recorder.

Alternatives - Options - Special applications



Alternative models for special applications have been designed. GT-40-B profits of BGO detector 3" base diameter and 3" height. GT-40 - L is a model with extended length of body for scanning of small spots on earth surface. Support for high precision external GPS, build in calibration and protocol for fast core logging.



Centronic is een in het Verenigd Koninkrijk gevestigde leider in technologieën voor stralingsdetectie en biedt een reeks detectoren die speciaal zijn ontwikkeld voor omgevingsmonitoring in nucleaire en industriële omgevingen. Hun expertise beslaat meer dan 70 jaar en biedt betrouwbare oplossingen voor het monitoren van stralingsniveaus in diverse omgevingen.

Product offering

Alpha, Beta & Gamma Detectors - Centronic



Beta & Gamma Detectors - Centronic





The Alpha, Beta & Gamma Detectors (Centronic) are used for the detection of radiation at low dose rates. This range of mica-window tubes is used for monitoring all types of radiation in a wide variety of environments.



Alpha, Beta & Gamma Detectors features:

- circuitry simple
- robust build
- available with compensating filter

Contact our product specialist or download the datasheet below.



The Beta & Gamma Detectors (Centronic) are used for the detection of radiation at low, intermediate and high dose rates. These types have a wide range of applications e.g. personal dosimetry, military and defence equipments.



Beta & Gamma Detectors features:

- robust construction
- simple circuitry

Contact our product specialist or download the datasheet below.



ULTRA

Lab Impex Systems (LIS) is sinds 17 juli 2014 onderdeel van Ultra Electronics. Zij staat bekend als gespecialiseerde fabrikant van stralingsdetectie-oplossingen en diensten voor gebruik in de wereldwijde nucleaire industrie.

LIS is al sinds 1976 marktleider op het gebied van ontwerpen, ontwikkelen en vervaardigen van meetinstrumentatie speciaal gericht op stack monitoring.

Product offering

**CMS Gamma - Lab
Impex**





The CMS Gamma (Lab Impex) is an advanced continuous monitoring station for the measurement of gamma radiation (dose-rate of activity) in the environment or workplace. The system provides essential, reliable information to personnel when radiation levels are above normal. The versatile unit can provide interlock control in hot areas such as fuel stores, caves, glove boxes and hot cells as required.



CMS Gamma features:

- installed, transportable or trolley mounted
- internal back up battery which enables full operation for up to 1 hour in the event of mains failure
- the detector arrangement can be installed at distances of up to 1000m (3,280ft) from the CMS station
- wide range of detectors available

Read more about the CMS Gamma on the [Lab Impex website](#)

DRAAGBARE HPGE





PHDS Co. is gespecialiseerd in de ontwikkeling van draagbare High-Purity Germanium (HPGe) gammastralingsdetectoren. Deze detectoren bieden hoge-resolutie spectroscopie en beeldvormingsmogelijkheden voor toepassingen in nucleaire beveiliging, noodhulp en wetenschappelijk onderzoek. Hun instrumenten zijn ontworpen voor nauwkeurige isotopenidentificatie en -kwantificering in formaten die direct inzetbaar zijn.

Product offering

GeGI: Imaging HPGe Detector



NP Radiochemistry Imager



Fulcrum: HPGe Detector



Fulcrum-40h: 40% HPGe Detector



LoPro HPGe Detector



GeGI: Imaging HPGe Detector



- HPGe gamma-ray spectroscopy and isotope identification
- Real-time exposure rate calculation
- Fully capable of imaging Special Nuclear Materials (^{235}U and ^{239}Pu)
- Fast cool-down to operating temperature
- Long-life mechanical cooler
- Compact and hand-portable
- Hot-swappable batteries for continuous field operation
- User-friendly tablet operation
- Reachback File: ANSI N42.42 format



NP Radiochemistry Imager



The NP Imager is specifically designed to measure the dynamics of radiochemical separation processes in real time. Developed under a Small Business Innovation Research (SBIR) grant from the Department of Energy Office of Nuclear Physics (NP), the NP Imager focuses on the unique needs of radiochemists and technicians separating radioisotopes for radio-pharmaceuticals and other applications.

The NP Imager monitors the locations and distributions of multiple isotopes over time, allowing the radiochemist and technician to monitor separation processes in real time. In the process shown here, NP Imager measured Lu-177 and Yb-175 separation on a column over the course of 3 ½ hours using 10-minute exposures. Note that it's clear when the Yb-175 has been removed from the column, allowing the radiochemist to know when to collect the desired Lu-177.

Applications

- Radiopharmaceutical Process Monitoring
- Radiochemical Separation Research and Development
- Nuclear Physics Isotope Production
- Nuclear Materials Management
- Waste Management
- Decontamination and Decommissioning



Fulcrum: HPGe Detector



Overview:

The Fulcrum is a next-generation HPGe gamma ray detector engineered for rapid, accurate isotope identification in a compact, field-ready design. Weighing just 8 lbs, it is the lightest and most portable detector of its kind, making it ideal for mobile and emergency response scenarios. Equipped with the user-friendly PHDS OMNI software, the Fulcrum offers real-time exposure rate calculation and intuitive, color-coded isotope identification—all accessible through a simple touchscreen interface. With fast cool-down, wireless capability, and extended field operation features, the Fulcrum sets a new standard for high-performance gamma spectroscopy in any environment.

Features:

- HPGe gamma-ray spectroscopy and isotope identification
- Ultra-fast cool-down to operating temperature (2 hours)
- Most compact and lightweight HPGe detector (8 lbs)
- Relative efficiency: 12% at 1333 keV
- Real-time exposure rate calculation
- Compact, hand-portable design
- User-friendly Android app interface
- Wireless capability for remote operation
- Long-life mechanical cooler
- Bridge battery option for uninterrupted field use
- User-defined timed data acquisition with auto file save
- Reachback file output in ANSI N42.42 format



Fulcrum-40h: 40% HPGe Detector



- HPGe gamma-ray spectroscopy and isotope identification
- Relative efficiency of 40% (at 1332 keV)
- Fast cool-down to operating temperature (5 hours)
- Long-life mechanical cooler
- ISOTAC activity calculator
- Configurable with 1 or 2 onboard batteries and optional neutron detector
- Real-time exposure rate calculation
- User-specified timed data acquisition and auto file save
- Reachback File: ANSI N42.42 format



LoPro HPGe Detector



The LoPro is a lightweight, low-profile HPGe gamma ray detector used by U.S. military operators around the world. The LoPro provides unmatched field reliability and gamma-ray spectroscopy for mission-critical applications. The unique form factor allows inconspicuous measurements for missions in which discretion is a must, while not sacrificing the spectroscopic performance expected from an HPGe detector.

Features

HPGe gamma-ray spectroscopy and isotope identification	Fast cool-down to operating temperature (3 hours)	Compact and hand-portable (8 lbs)
Integrated GADRAS isotope identification	Relative efficiency: 12% (at 1333 keV)	Real-time exposure rate calculation
User-friendly Android app, including TAK compatibility	Reachback File: ANSI N42.42 format	Long-life mechanical cooler
Long battery life (up to 15 hours per battery)	Wireless capable for remote operation	User-specified timed data acquisition and auto file save



LABORATORIUM APPARAT UUR





Ludlum Measurements, Inc. is een vertrouwde wereldwijde leverancier van instrumenten voor stralingsdetectie en -monitoring en biedt robuuste, nauwkeurige oplossingen voor personeelsveiligheid, milieubescherming en beveiligingsscreening. Sinds 1962 wordt hun apparatuur wereldwijd gebruikt in toepassingen variërend van kernenergie en noodhulp tot grensbewaking en monitoring van kritieke infrastructuur.

Product offering

Model 3030E Alpha-Beta Scaler



Model 2000 General Purpose Scaler



Model 2200 Scaler-Ratemeter



Model 2100-1 Sample Counter



Model 2100 Conveyorized Sample Counter



Model 3030E with 43-10-1 Alpha-Beta Sample Counter



Model 3030-2 Simultaneous Alpha-Beta Sample Counter



Model 3030 Alpha-Beta Sample Counter



Model 3030P Alpha-Beta Sample Counter



Probes (Ludlum)



Model 3030E Alpha-Beta Scaler



- Dual Channel Scaler with Independent Readouts
- Connects to External Sample Head/Detector
- CPM & DPM Modes
- Background Subtraction
- Alpha/Beta Alarms
- QC Check
- 8 Hour Battery Operation
- Real Time Clock
- RS-232 Interface
- Includes PC Software

The Model 3030E is a dual channel, scaler-type, sample counter electronics package that will accommodate many detector inputs from external sample head/detectors. This design represents a significant improvement over older analog type scalers by providing greater utility and functionality.

The system incorporates independent backlit LCD readouts to support discriminated alpha and beta sample counting. The system features background subtraction, crosstalk correction, separate alpha/beta alarms, cpm/dpm operating modes, and a pre-scripted QC function with an automatic reminder timer.

The instrument supports both 110 and 220 Vac operation and includes a trickle-charged gel-cell battery for portable offsite use up to eight hours. A wide-range, high-voltage power supply supports virtually any detector.

Status indicators located along the front panel inform the operator when another QC check is required, if the detector is nonfunctional, if it is operating in DPM or CPM mode, and if either an alpha or beta alarm setpoint has been exceeded. The count time is selected via a front panel rotary switch that enables count times ranging from 0.1 to 60 minutes or some other prescribed value as set up via a link to a PC. Other controls include a start count button, audio volume rotary adjustment, and instrument on/off switch.

An RS-232 output from the rear panel supports connection to either a printer or PC. Included in the price is PC control software, which is a Windows application that supports setup of the system, as well as collecting and logging all count results from the 3030E.



Model 2000 General Purpose Scaler



- General Purpose Scaler
- Supports Wide Range of External Detectors
- 95 to 250 Vac Power Input
- Portable Battery Operation
- RS-232 Interface to Printer or PC

The Model 2000 is a general purpose scaler typically used for counting samples. Rugged design and construction accommodates both benchtop and portable applications. The wide-ranging AC power supply and internal batteries are capable of powering the instrument upwards of 120 hours. The Model 2000 supports GM, proportional, and scintillator type detectors, and provides fine adjustment controls for setting the high-voltage and threshold settings.

The scaler reading is presented on a digital, six-digit readout LED that can be set to count from 0.1 to 999 minutes via a front-panel dip switch. An internal switch facilitates counting in seconds rather than minutes, if desired. Other front-panel controls include a start-count button, an HV/Bat switch for displaying the current value on the accompanying analog meter, and a three-way switch for selecting Power Off, Battery, or Line Power.

An RS-232 port on the rear panel allows connection to a PC or printer as set by a rear mounted switch (a RS-232 to USB adapter cable is included). When connected to a PC, the counting may be controlled and results recorded via application software.



Model 2200 Scaler-Ratemeter



- General Purpose Scaler/Ratemeter
- Single Channel Analyzer
- Supports Wide Range of External Detectors
- 95 to 250 Vac Power Input
- Portable Battery Operation
- RS-232 Interface to Printer or PC

The Model 2200 is a general purpose scaler with an accompanying ratemeter, and is typically used for counting samples. Its rugged design and construction allow both benchtop and portable applications. The wide-ranging AC power supply and internal batteries are capable of powering the instrument upwards of 120 hours. The Model 2200 supports GM, proportional, and scintillator-type detectors, and provides fine adjustment controls for setting the high-voltage and threshold settings.

An adjustable discriminator and an adjustable window allow the user to count pulses within a user specified energy range. This portable unit can be powered by wall current or by four “D” cell batteries. The latter allows for continued operations during power interruptions. An optional printer (Model 4167-386) is available for hard copy archival of wipe test results.

The Ludlum Model 2200 Scaler/Ratemeter is the ideal economic solution for routine sample counting, single channel analyzing and routine radiopharmaceutical related procedures, when used with the [Model 243](#) well scintillator (NaI) detector. The well counter’s 4π geometry and 1.3 cm (0.5 in.) shielding provides excellent sensitivity to higher energy isotopes like ^{131}I .



Model 2100-1 Sample Counter



The Model 2100-1 manually operated sample counting system processes sample steel slugs to determine whether any radioactive impurities exist. The gamma radiation counting system is a table-mounted, fully integrated design that includes a gamma detector, sample tray, and controller.

The counting electronics incorporates two channels to distinguish between low and high energy gamma isotopes. All parameters, such as alarm point and count time are user-adjustable from the front panel LCD touch screen via a simple menu selection.

Measurement results for each sample are displayed on the backlit LCD. An Ethernet port reports all results and system status in real time for remote data logging and alarm annunciation. Visual and audible alarms are annunciated via the system's LCD and rear panel mounted buzzer respectively. A built-in relay provides a method for driving an external horn/strobe (available as an option).

One rear panel mounted USB port enables connection to either a keyboard or barcode reader device for the purpose of entering sample IDs.

Features

- High Sensitivity Gamma Detector
- Separate High & Low Gamma Energy Sampling
- User-Adjustable Parameters
- Color LCD Touch Screen
- Ethernet Connectivity
- Remote Alarm Output
- USB Ports for ID Input Devices



Model 2100 Conveyorized Sample Counter



The Model 2100 automated sample counting system processes sample steel slugs to determine whether any radioactive impurities exist. The gamma radiation counting system is a table-mounted, fully integrated design that includes a gamma detector, sample conveyor, and controller to facilitate automated processing.

Once the sample has been positioned on the conveyor, an infrared sensor automatically initiates conveyance of the sample into the lead shielded detector where it is counted for a predetermined time. Once the count is completed, the conveyor again advances until the sample drops into a discard container.

The counting electronics incorporates two channels to distinguish between low and high energy gamma isotopes. All parameters, such as alarm point and count time are user-adjustable from the front panel LCD touch screen via a simple menu selection.

Measurement results for each sample are displayed on the backlit LCD. An Ethernet port reports all results and system status in real time for remote data logging and alarm annunciation. Visual and audible alarms are annunciated via the system's LCD and rear panel mounted buzzer respectively. A built-in relay provides a method for driving an external horn/strobe (available as an option).

One rear panel mounted USB port enables connection to either a keyboard or barcode reader device for the purpose of entering sample IDs.





Model 3030E with 43-10-1 Alpha-Beta Sample Counter

- Alpha-Beta Dual Channel Sample Counter
- Simultaneous Alpha & Beta Counting
- 5.1 cm (2 in.) Diameter Sample Tray
- Independent Readouts
- CPM & DPM Modes
- Background Subtraction
- Alpha/Beta Alarms
- QC Check
- 8-Hour Battery Operation
- Real Time Clock
- RS-232 Interface
- Includes PC Software

This system joins Ludlum's Model 3030E dual channel scaler and the Model 43-10-1 dual phosphor detector with a 5.1 cm (2 in.) diameter sample tray to produce a complete alpha beta sample counting system. The 3030E electronics incorporates independent backlit LCD readouts to support discriminated alpha and beta sample counting. The system features background subtraction, crosstalk correction, separate alpha/beta alarms, CPM/DPM operating modes, and a pre-scripted QC function with automatic reminder timer.

The instrument supports both 110 and 220 Vac operation and includes a trickle-charged gel-cell battery for portable offsite use for up to eight hours. A wide-range high-voltage power supply supports virtually any detector. Status indicators located along the front panel inform the operator when another QC check is required, if the detector is nonfunctional, if it is operating in DPM or CPM mode, and if either an alpha or beta alarm setpoint has been exceeded.





Model 3030-2 Simultaneous Alpha-Beta Sample Counter

- Fully Integrated Alpha-Beta Sample Counter
- Simultaneous Alpha and Beta Counting
- Shielded 5.1 cm (2 in.) Diameter Sample Tray
- Independent Readouts
- CPM, Bq, & CPS Modes
- Background Subtraction
- Alpha/Beta Alarms
- QC Check
- 8 Hour Battery Operation
- Real Time Clock
- RS-232 Interface

The Model 3030-2 Simultaneous Alpha-Beta Sample Counter is a dual-channel counter designed for simultaneous alpha and beta sample measurement.

The counts per minute (CPM), Becquerel (Bq), or counts per second (CPS) modes may be enabled to allow the count to be automatically, and in real time, in CPM, Bq, or CPS. While in Bq and CPS display modes the display will show the count with two decimal places.

The counter incorporates an internally housed ZnS(Ag) plastic scintillator detector with shielded 5.1 cm (2 in.) diameter stainless steel sample tray. This system supplies independent backlit LCD readouts to support alpha and beta sample counting.





Model 3030 Alpha-Beta Sample Counter

- Fully Integrated Alpha-Beta Sample Counter
- Simultaneous Alpha and Beta Counting
- Shielded 5.1 cm (2 in.) Diameter Sample Tray
- Independent Readouts
- CPM & DPM Modes
- Background Subtraction
- Alpha/Beta Alarms
- QC Check
- 8 Hour Battery Operation
- Real Time Clock
- RS-232 Interface
- Includes PC Software

The Model 3030 Alpha-Beta Sample Counter incorporates an internally housed ZnS(Ag) plastic scintillator detector with shielded 5.1 cm (2 in.) diameter stainless steel sample tray into the Ludlum Model 3030 Scaler. This combined system supplies independent backlit LCD readouts to support discriminated alpha and beta sample counting. Key features include background subtraction, crosstalk correction, separate alpha/beta alarms, cpm/dpm operating modes, and a pre-scripted QC function with automatic reminder timer.

The instrument supports both 110 and 220 Vac operation, and includes a trickle charged gel-cell battery for portable offsite use for up to eight hours. A wide-range high voltage power supply supports virtually any detector. Status indicators located along the front panel inform the operator when a QC check is required, if the detector is non-functional, if it is operating in dpm or cpm mode, and if either an alpha or beta alarm setpoint has been exceeded.

The count time is selected via a front-panel rotary switch that enables count times ranging from 0.1 to 60 minutes, or some other prescribed value as set up via a link to a PC. Other controls include a start count button, audio volume rotary adjustment, and instrument on/off switch. An RS-232 output from the rear panel supports connection to either a printer or PC. Included in the price is PC-control software, which is a Windows application that supports setup of the system, as well as collecting and logging all count results from the 3030.



Model 3030P Alpha-Beta Sample Counter



- Fully Integrated Alpha-Beta Sample Counter
- Simultaneous Alpha and Beta Counting
- Employs PIPS™ Detector
- Ultra Low A/B Crossover & Backgrounds
- Adjustable Alpha Window for Radon Rejection
- Data Logging with USB Connectivity
- 48-Hour Battery Operation
- Includes PC Software

The 3030P with a solid state PIPS™ detector facilitates efficient and cost-effective, simultaneous alpha and beta sample counting for air filters, smears, and swipes. This instrument meets the newer Electric Power Research Institute (EPRI) guideline for detecting a few disintegrations per minute of alpha amidst several hundred-thousand disintegrations per minute beta background. All data are automatically logged and easily retrievable via a USB connection. The light weight and battery operability afford convenient use in the field. With the optional detector shield, the Model 3030P can be used virtually anywhere.

The instrument comes with PC control software that allows the user to set all parameters, view QC check settings, change alpha and beta window and threshold values, perform MDA (Minimum Detectable Activity), and retrieve the sample data saved to the logging memory.



Probes (Ludlum)



For any application Ludlum offers a wide range of probes. The probes can be used with all Ludlum models which require an external detector.



Ludlum models with external detector a.o.:

- [Model 3000 Digital Survey Meter](#)
- [Model 3001 Multi-Detector Survey Meter](#)
- [Model 375 Area Monitor Controller](#)
- [Model 375/9 Digital Area Monitor](#)
- [Model 30 Digital Survey Meter](#)



SDEC France is een gespecialiseerde fabrikant van milieumonitoring en laboratoriumapparatuur en biedt complete oplossingen voor afval- en recyclingbeheer, milieumonitoring en laboratoriumtoepassingen. Met meer dan 30 jaar ervaring ontwerpt en produceert het bedrijf hoogwaardige instrumenten ter ondersteuning van professionals in milieuwetenschappen, landbouwkunde en radiologische veiligheid.

Product offering

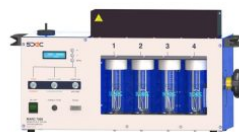
EDP 9002 - Double Mast Electrodeposition Equipment



PRC 14: Maintenance Pump - For Cleaning Pipes for HAGUE 7000 CARBON 14 Bubbler



MARC 7000 - Tritium Bubbler: Atmospheric Monitoring System with 4 Pots (With Oven)



Aerosol and Iodine Sampling Heads



AS 5000 Portable Aerosol & Iodine Sampler DPRC Type for Air Flow Regulation - Maintenance-Free Design



EDP 7000 - Electrodeposition Equipment - Monostation



DPM 7001 Liquid Scintillation Counter - SDEC



H3R 7000 Airborne Tritium Condenser - SDEC



**Single Mast
Electrodeposition
Equipment - EDP
7000 - SDEC**



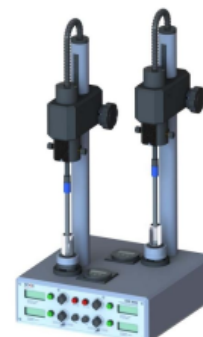
**Tritium sampler 4
vials MARC 7000 -
SDEC**





EDP 9002 – Double Mast Electrodeposition Equipment

- **SPACE-SAVING & ECONOMICAL DESIGN:** Two measurement stations on a single base, ideal for laboratories with limited workspace. The EDP 9002 is more affordable than purchasing two EDP 7000 devices.
- **TIME EFFICIENCY:** Significant time savings when conducting multiple analyses.
- **SYNTHETIC MATERIALS:** The EDP is made solely from synthetic materials that perfectly resist the sometimes highly corrosive environments of research laboratories, thus ensuring a very long lifespan for the device.
- **HIGH PRECISION:** Ensures optimal trapping efficiency with regulated and constant direct current. The EDP is equipped with a polarity reverser for electrochemical stripping of the stainless steel pellet intended to receive the deposit, thereby ensuring perfect purity of the support.
- **COOLING SYSTEM:** Features high-flow air convection, preventing solution evaporation thanks to a solution cooling system with high-flow air convection.
- **VERSATILE SETTINGS:** Adjust the current intensity up to 5 Amperes and the electrode rotation speed with precision potentiometers and three sizes for solution containers.
- **DIGITAL TIMER:** Set the exact duration of electrodeposition with a digital display timer and an audible alarm.
- **EASY TO USE:** Quick assembly/disassembly of bottles and an internal container for accidental spills. Easy user maintenance of the device. Almost instantaneous assembly/disassembly of bottles.
- **COLLABORATION WITH COGEMA:** Designed in association with the leading French nuclear institute.





PRC 14: Maintenance Pump - For Cleaning Pipes for HAGUE 7000 CARBON 14 Bubbler

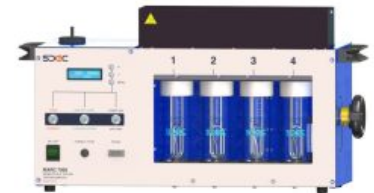
- **RELIABILITY:** PRC 14 self-priming centrifugal pump with a 150-hour motor life, operates continuously without cooling.
- **VERSATILITY:** Specifically designed for HAGUE 7000 bubblers using a diluted acid solution. This operation dissolves and evacuates the solid deposits that have accumulated inside the Ø 3 mm stainless steel pipes and in the drilled block, mainly between pots 1 and 2. It is ideal for various applications, ensuring efficient capture of atmospheric ¹⁴C.
- **DURABLE CONSTRUCTION:** Equipped with an ABS impeller, stainless steel motor shaft, and nitrile seal, ensuring longevity and resilience with a constant flow rate of 10l/h.
- **ENERGY EFFICIENCY:** Maximum consumption of 60 Watts, operates ideally at 12-15 volts DC, compatible with 12V battery.
- **ECONOMICAL SOLUTION:** Offers reliability and performance at an attractive price.





MARC 7000 - Tritium Bubbler: Atmospheric Monitoring System with 4 Pots (With Oven)

- **EFFICIENCY:** The MARC 7000 monitors atmospheric tritium, capturing vapor and gas, with oxidation in an oven.
- **PERFORMANCE:** 99% HTO trapping efficiency and 98% oven conversion efficiency for precise tritium monitoring.
- **INTEGRATED ADVANCED FUNCTIONS:** Offers adjustable airflow, real-time display of various parameters, automatic regulation, and default data storage. Designed for user-friendly operation and accurate readings.
- **PERFORMANCE:** Automatic air flow regulation, durable diaphragm pump, and 316L stainless steel circuit.
- **INTEGRATED ADVANCED FUNCTIONS:** Adjustable air flow, automatic regulation, real-time display, and anomaly storage.
- **OPTIONS FOR ENHANCED FUNCTIONALITY:** Cooling circuit, Ethernet connectivity, and alarms.
- **VERSATILE APPLICATIONS:** Suitable for the nuclear industry, research centers, waste storage, and laboratories.
- **SUPPLIER CONFIDENCE:** Officially supplied to major organizations such as IRSN, the French Navy, EDF, ANDRA, CEA, and internationally to IAEA and various nuclear power plants.
- **CERTIFICATION:** NF ISO 20045 & NF ISO 20041-1



Aerosol and Iodine Sampling Heads



These holders are used for sampling aerosols and volatile compounds on filter paper and cartridge(s). They can be used for ambient sampling or connected to a line (e.g., type DPRC). They are made of anodised aluminium or stainless steel (on request) for various diameters of filter paper and cartridge(s):





AS 5000 Portable Aerosol & Iodine Sampler DPRC Type for Air Flow Regulation - Maintenance-Free Design

- **HIGH-QUALITY SAMPLING:** The AS 5000 excels in aerosol and iodine sampling, fully compliant with NF ISO 2889 standards.
- **ADJUSTABLE AIR FLOW:** Microprocessor for airflow setting from 30 to 100 liters/minute, customizable options.
- **EASY FILTER HANDLING:** TPHP head for easy installation and retrieval of filters, without interrupting the air circuit.
- **EASY DATA TRANSFER:** Transmits data via Ethernet, an available option.
- **PRECISE MONITORING:** Tracks sampled air volume and alerts for clogging and leaks, with audible and written reports.
- **CERTIFICATION:** NF ISO 2889





EDP 7000 – Electrodeposition Equipment – Monostation

- **SYNTHETIC MATERIALS:** Made from synthetic materials resistant to the corrosive environments of laboratories, ensuring longevity of the EDP.
- **HIGH PRECISION:** Ensures optimal trapping efficiency with a regulated and constant direct current. The EDP is equipped with a polarity reverser for electrochemical stripping of the stainless steel pellet intended to receive the deposit, thereby ensuring perfect purity of the support.
- **COOLING SYSTEM:** High-flow air convection to prevent solution evaporation, thanks to a cooling ventilation system.
- **VERSATILE SETTINGS:** Precise settings for current intensity up to 5 Amperes and electrode rotation speed.
- **DIGITAL TIMER:** Timer with digital display and audible alarm for exact duration of electrodeposition.
- **INTUITIVE USE:** Quick installation of bottles, internal container for spills, easy maintenance.
- **COLLABORATION WITH COGEMA:** Designed in partnership with COGEMA, a leading French nuclear institute.



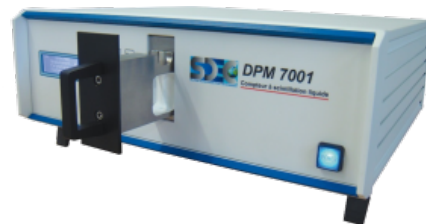


De DPM 7001 Liquid Scintillation Counter (SDEC) is een mobiele vloeistofscintillatieteller uitgerust met twee fotomultipliers, waardoor deze een hoge telefficiëntie en weinig achtergrondgeluid heeft. Het is speciaal ontworpen voor het tellen van tritium en koolstof-14. Door zijn kleine formaat en zijn lichte gewicht (16 kg) kan hij gemakkelijk worden vervoerd naar meetlocaties voor snelle metingen.

Kenmerken van de DPM 7001 vloeistofscintillatieteller:

- hoge telefficiëntie ($H3 > 37\%$, $C14 > 94\%$)
- weinig achtergrondgeluid (< 40 CPM)
- lichtgewicht: 16kg
- bediening en aflezing op LCD-display of op PC (optionele software)
- gegevensexport in Excel-formaat
- twee telkanalen voor twee gelijktijdige tellingen

Lees meer over de DPM 7001 vloeistofscintillatieteller op de SDEC-website



H3R 7000 Airborne Tritium Condenser - SDEC



De H3R 7000 Airborne Tritium Condensor (SDEC) is een innovatief instrument op het gebied van Tritium bij luchtbemonstering. Het verzamelt monsters van tritium in dampvorm en produceert resultaten in minder dan 40 minuten. Het verkregen monster kan tot een detectiegrens van 0,01 Bq/m³ worden gemeten door uitgestelde meting met behulp van vloeistofscintillatie.



Kenmerken van de H3R 7000 tritiumcondensor in de lucht:

- snelle startmodus
- meting en berekening in realtime van de absolute vochtigheid in de omgevingslucht in g/m³
- automatische berekening van de opvangtijd afhankelijk van de benodigde waterhoeveelheid
- automatisch drogen onder hoge temperatuur van het vangcircuit om kruisbesmetting te voorkomen
- selectie van de droogtijd
- USB-uitgang: gegevensherstel op USB-sleutel
- thermische printer geïntegreerd: printen van gegevens op sticker om op monsterflesje te plakken

Lees meer over de H3R 7000 Airborne Tritium Condensor op de SDEC-website

Single Mast Electrodeposition Equipment - EDP 7000 - SDEC



De maatstaf voor radio-isotopen wordt in de nucleaire geneeskunde gebruikt om het besmettingsniveau van een patiënt die radio-isotopen heeft gemanipuleerd, te controleren en te volgen. Bij het meten van een radio-isotoop is het gewoonlijk het eerste wat u moet doen, deze op te vangen en op een drager te laten neerslaan.



Het Single Mast Electrodeposition Equipment – EDP 7000-systeem is het meest efficiënte principe voor het vangen van een radio-element in een vloeibare oplossing. Dit principe maakt het mogelijk om de radio-isotopen in een oplossing op een metalen plaat af te zetten. Om de hoeveelheid opgevangen radio-elementen te meten, wordt de metalen plaat daarna in een geschikte machine (spectrometer of andere) geplaatst.

apparatuur voor elektrodepositie met één mast - EDP 7000-kenmerken:

- Synthetische materialen.
- temperatuurbeheersing van de oplossing.
- drie maten oplossingscontainers.
- snel schroeven/losschroeven.
- eenvoudig onderhoud door de operator.
- schakelaar voor omgekeerde polariteit.
- onafhankelijke timer.

Lees meer over de Single Mast Electrodeposition Equipment op de SDEC-website

Tritium sampler 4 vials MARC 7000 - SDEC



De apparatuur Tritium sampler 4 vials (MARC 7000) is ontworpen om tritium te bemonsteren dat zich in een luchtvolume bevindt (gas H₃, getritieerd water HTO of organisch gecombineerd). Door middel van het borrelprincipe wordt getritieerde waterdamp in de eerste twee zuigflessen opgevangen. Om het tritium dat wordt gecombineerd tot organische materialen op te vangen, wordt in de oven een oxidatiereactie gecreëerd. Er wordt gebruik gemaakt van een katalysator om het verbrandingsniveau te verlagen. Dit zorgt ervoor dat tritium chemisch reageert en getritieerde waterdamp vormt, die wordt opgevangen in zuigflessen nr. 3 en 4. Na een bepaalde tijd wordt het getritieerde water in de flessen gemeten in een laboratorium. De gemeten hoeveelheid tritium is gerelateerd aan de hoeveelheid lucht die door de apparatuur is gestroomd.



Tritium-sampler 4 flesjes kenmerken:

- uitstekende vangefficiëntie (bijna 99%)
- koelsysteem om de bemonsteringslengte te vergroten (optie)
- goede prijs
- constante evolutie van het product
- makkelijk te gebruiken
- aansluitbaar op alle bemonsteringslijnen

Lees meer over de Tritium sampler 4 vials (MARC 7000) op de website van SDEC



Spectrum Techniques Spectrum Techniques is een toonaangevende leverancier van oplossingen voor stralingsdetectie en -meting, gespecialiseerd in laboratoriumapparatuur en radioactieve bronnen. Hun aanbod omvat een reeks instrumenten en detectoren die zijn ontworpen ter ondersteuning van educatieve, onderzoeks- en industriële toepassingen.

Product offering

Advanced Spectroscopy System



SCINTILLATION WELL COUNTING SYSTEM



Intermediate Nuclear Laboratory System



Advanced Spectroscopy System



The Advanced Spectroscopy System, your comprehensive solution for advanced nuclear experimentation and analysis.

Sophisticated Capabilities: Our cutting-edge systems are engineered to meet the demands of diverse applications, from academic research and industrial quality control to environmental monitoring and nuclear medicine. They empower users with the tools needed to delve deep into the intricacies of radiation spectroscopy.

Tailored Solutions: Offering a range of models and configurations, these systems are highly customizable to align perfectly with your specific requirements. Whether you need energy resolution, peak analysis, or nuclide identification, our systems are designed to adapt.

Superior Detector Technology: At the heart of our spectroscopy systems lies advanced detector technology, delivering unparalleled sensitivity and accuracy. From scintillation detectors to high-purity germanium detectors, our instruments are optimized for peak performance.

User-Friendly Interface: Navigating the complexities of radiation analysis has never been easier. Our intuitive software interfaces simplify data acquisition and analysis, allowing users of all skill levels to achieve precise results.

Reliability and Support: Backed by Spectrum Techniques' decades of expertise, these systems are built for longevity and backed by top-notch technical support. We're committed to ensuring your success in radiation spectroscopy.

Elevate your research, enhance your quality control, and make breakthroughs in nuclear science with Spectrum Techniques' Advanced Spectroscopy Systems. Explore the limitless possibilities today.

The System is built around the UCS-30 and a 1.5" x 1.5" NaI(Tl) detector; it is designed for conducting a wide selection of spectroscopy experiments.



SCINTILLATION WELL COUNTING SYSTEM



The Wipe System – a state-of-the-art solution for the precise and efficient collection of radioactive contamination.

Effortless Contamination Detection: Our Wipe System is designed to simplify and enhance the process of identifying and quantifying radioactive contamination. With meticulous attention to detail, it enables you to maintain the highest standards of safety and environmental protection.

Comprehensive Solution: This system comprises user-friendly software and specialized wiping materials, ensuring a comprehensive approach to contamination monitoring. It empowers users across various industries, including nuclear facilities, healthcare, and environmental laboratories.

Accurate and Reliable: Spectrum Techniques' Wipe System is built on cutting-edge technology, offering unparalleled accuracy and reliability. It allows you to confidently detect and measure radioactive contaminants, safeguarding your personnel and the environment.

Customizable for Your Needs: We understand that different applications have unique requirements. Our Wipe System is customizable to meet your specific needs, offering flexibility in terms of sample size, detection thresholds, and reporting options.

Exceptional Support: As with all Spectrum Techniques products, our Wipe System is backed by a team of experts dedicated to ensuring your success. Our technical support and training resources are available to assist you every step of the way.

Upgrade your contamination monitoring process with Spectrum Techniques' Wipe System. Stay compliant, protect your environment, and mitigate risks with precision and confidence.



Intermediate Nuclear Laboratory System



The Intermediate Plus Nuclear Laboratory System, your comprehensive solution for advanced nuclear experimentation and analysis.

Unparalleled Versatility: This cutting-edge system is meticulously crafted to cater to the evolving needs of educational institutions, research facilities, and nuclear science enthusiasts. With its versatile design, it's perfectly suited for a wide range of applications, including teaching, advanced research, and radiation safety studies.

Precise Data Acquisition: Equipped with state-of-the-art technology, the Intermediate Plus Nuclear Laboratory System ensures precise data acquisition. It empowers users to conduct experiments with confidence, facilitating a deeper understanding of nuclear phenomena.

Seamless Integration: Our system seamlessly integrates with an array of detectors, amplifiers, and software, providing a comprehensive toolkit to explore and analyze radiation sources effectively. It's engineered for ease of use, making it accessible to both novice and experienced users.

Enhanced Features: The Intermediate Plus Nuclear Laboratory System boasts an array of enhanced features, including user-friendly software for data analysis, adaptable detector options, and flexible connectivity options, allowing you to tailor your experiments to your specific requirements.

Reliability and Support: Backed by Spectrum Techniques' commitment to quality and customer satisfaction, this system is built to last and comes with exceptional technical support to ensure your research and educational objectives are met with ease.

Unlock the potential of nuclear science with confidence, precision, and versatility using the Spectrum Techniques Intermediate Plus Nuclear Laboratory System. Elevate your experiments and research to new heights with this comprehensive solution.





Georadis s.r.o. is een gespecialiseerde fabrikant van geavanceerde instrumenten voor stralingsdetectie en -monitoring en biedt een uitgebreid scala aan oplossingen voor veld- en laboratoriumtoepassingen. Hun productportfolio omvat handheld monitoren, draagbare isotopenidentifiers, apparatuur voor omgevingsmonitoring en laboratoriumapparatuur, allemaal ontworpen om te voldoen aan de strenge eisen van professionals in sectoren zoals milieumonitoring, industriële veiligheid en openbare veiligheid.

Product offering

**RT-50 Laboratory
Gamma-Ray
Spectrometer -
Georadis**



RT-50 Laboratory Gamma-Ray Spectrometer - Georadis



The RT-50 (Georadis) is a state of the art gamma spectrum analyzer to monitor and detect the presence of radiation in metals, metals by-products, geological samples, construction materials, environmental commodities, food and many other materials. Floor standing and easy to operate, the RT-50 spectrum analyzer is an indispensable part of any analytical laboratory, it rapidly detects and accurately measures extremely low levels of radioactive contamination.



RT-50 Laboratory Gamma-Ray Spectrometer features:

- full sample analysis in less than 5 min
- sensitivity; 0.02 Bq/g
- energy range: 20 keV – 3,0 MeV
- 1024 channel pulse amplitude analyzer
- short calibration times
- NaI(Tl) volume 0.35 l, 76 x 76 mm (3"x3") detector

Read more about the RT-50 Laboratory Gamma-Ray Spectrometer on the [Georadis website](#)



Kromek Group plc is een wereldleider in geavanceerde stralingsdetectietechnologieën en is gespecialiseerd in compacte oplossingen met een hoge resolutie voor beveiligings-, defensie-, nucleaire en onderzoekstoepassingen. Kromek maakt gebruik van gepatenteerde Cadmium-Zinktelluride (CZT) halfgeleidertechnologie en levert een veelzijdig portfolio met handheld monitoren, draagbare isotopenidentifiers, CZT-gebaseerde gammacamera's en spectrometers van laboratoriumkwaliteit.

Product offering

Quant GR1



Quant GR1



The Quant GR1 is a complete mobile or benchtop solution for quantifying doses of Gamma radiation released by radionuclides. Its high resolution of $<2\%$ and count spectrum range of 4096 channels enables any isotope to be identified and its associated dose quantified, even from complex mixtures.

The ability to quantify radiation doses in real time eliminates the need for further analysis in the lab, as data can both be collected and processed on site, saving time and costs.





ULTRA

Lab Impex Systems (LIS) is sinds 17 juli 2014 onderdeel van Ultra Electronics. Zij staat bekend als gespecialiseerde fabrikant van stralingsdetectie-oplossingen en diensten voor gebruik in de wereldwijde nucleaire industrie.

LIS is al sinds 1976 marktleider op het gebied van ontwerpen, ontwikkelen en vervaardigen van meetinstrumentatie speciaal gericht op stack monitoring.

Product offering

**CMS Iodine Monitor -
Lab Impex Systems**



CMS Iodine Monitor - Lab Impex Systems



De CMS Jodium Monitor (Lab Impex Systems) is een geavanceerd systeem voor het monitoren van de concentratie van radioactief jodium in de lucht op de werkplek en in andere aandachtsgebieden (stapels, cellen en handschoenenkasten).

De monitor is beschikbaar in isotopische specifieke configuraties, waaronder I-124, I-125, I-129 en I-131, en biedt realtime metingen van zowel moleculaire als organische vormen van jodium.

Bovendien is het systeem verkrijgbaar in een op een skid, behuizing of kar gemonteerde configuratie.

Het sensorelement van de jodiummonitor is een gepatenteerde detector, de CGADC (Continuous Gas Analysis and Detection Chamber). De CGADC combineert een gevoelige scintillatiedetector met een roestvrijstalen meetkamer waarin zich een filterpatroon met radioactief jodium bevindt. De CGADC is verpakt als een geïntegreerd apparaat, met afscherming, pomp, flowsensor en CMS-processor, en is verkrijgbaar in een vaste of transporteerbare configuratie.

CMS Jodium Monitor-functies:

- Het filtermechanisme vangt alle vormen van radioactief jodium op
- bereikt lage MDL's door uniek detectorontwerp met Brehmstrahlung-schild
- automatische achtergrondcompensatie
- temperatuurspectrumstabilisatie vermindert onnauwkeurige metingen als gevolg van spectrumdrift
- Het CMS-analysealgoritme biedt een lage, stabiele meting op de achtergrond, maar zorgt voor een snelle reactie op stijgende concentratieniveaus

Lees meer over de CMS Jodiummonitor op de website van Lab Impex Systems.



TRAININGSSIMULATORS





ARGON™ Argon Electronics levert hoogwaardige simulatorgebaseerde trainingsooplossingen voor de respons op chemische, biologische, radiologische, nucleaire en explosieve (CBRNe) en gevaarlijke stoffen (HazMat). Hun technologie maakt realistische, praktische training mogelijk, zowel in het veld als in klaslokalen - zonder de risico's van echte agenten.

Product offering

RADSIM 44-9-SIM
Radiation Safety
Training Probe
Simulator



PlumeSIM®



PlumeSIM-SMART



RS340 Back Pack



UDR-13 & UDR-14 SIM



Radsim DS3 Mini 900



Nuvia CoMo 170
Contamination
Training Simulator



AN/PDR 77 ALPHA & BETA SIM PROBES



**GMP-11 Radiation
Safety Training
Simulator Probe**



**M4A1 JCAD Chemical
Hazard Detection
Simulator**



**6150AD-K
Contamination
Simulator**



RADSIM GS4



MultiGAS SIM



**RDS Beta Photon
Probe Simulator**



**Ludlum 133-6 and
44-2 Radiation
Simulation Probes**



**RDS-100 / PDR-77 /
CDV 718 SIM Probes**



**AN/VDR 2 DT616-SIM
Radiation Safety
Training Simulator**



**ADM300A-SIM
Radiation Training
Simulator**



**GID-3 Chemical
Warfare Detection
Simulator**



**MCAD-SIM Chemical
Warfare Detection
Simulator**



**CAMSIM Chemical
Hazard Detection
Simulator**



**AccuRad PRD
Simulator**



**Nuvia DoIMo
Radiation Hazard
Detection Simulator**



**HRM Radiation
Hazard Simulator**



**SP4E Chemical
Hazard Detection
Simulator**



**AP4C-SIM Chemical
Detector Simulator**



**D-tect SYSTEMS RDS
Radiation Training
Simulator**



**SVG-2 Radiation
Hazard Detection
Simulator**



RadEye GF-10 SIM



RADSIM-SS3



**LCD3.3-SIM Chemical
Hazard Detection
Simulator**



**FH 40 GSIM Survey
Meter Simulator**



**Raid-100M Training
Simulator**



**Dräger X-am Series
Simulator**



**Tracerco PED+
Simulator**



RADSIM 44-9-SIM Radiation Safety Training Probe Simulator



The RADSIM 44-9-SIM is a cutting-edge simulation probe designed for use with Ludlum's 44-9 GM pancake-type detector.

This versatile training system offers a realistic alternative to traditional methods, eliminating the need for ionising radiation sources while delivering high-fidelity functionality for instructors and students alike.

Key Features

- **Accurate Simulation:** Replicates the functionality of Ludlum's 44-9 GM pancake-type detector, responding to safe magnetic sources simulating short-range Alpha and Beta radiation.
- **Adaptable Training Design:** Compatible with an extensive range of Ludlum survey meters, rate meters, and scalars. Includes an Instructor Remote Controller (IRC) for managing partial or full decontamination and probe functionality scenarios.
- **Integrated Training Capabilities:** Offers virtual Alpha, Beta, and Gamma simulation when used with Argon's Plume SIM system. Enables simultaneous, multi-detector, and multi-isotope training scenarios.



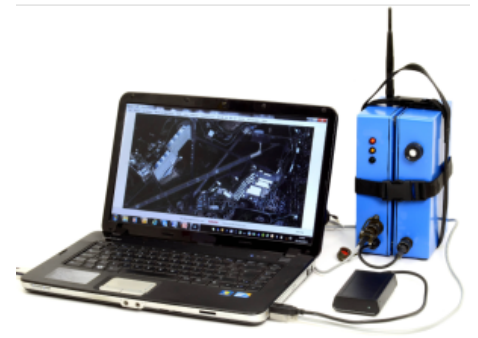


Plume SIM is the ultimate tool for preparing teams to respond to complex chemical, biological, radiological, and nuclear (CBRNe) threats. This innovative wide area training system creates realistic hazard plumes and hotspots, allowing instructors to manage a variety of threat scenarios in real time.

Ideal for counterterrorism and nuclear emergency exercises, Plume SIM adapts seamlessly from classroom tabletop mode to full scale field operations, enhancing team preparedness through powerful, scenario-based training.

Key Features

- **Versatile Training Modes:** Use Plume SIM in tabletop mode for classroom exercises or field mode for outdoor training with GPS enabled units.
- **Customizable Scenarios:** Create user defined scenarios with single or multiple threat sources, environmental factors, and release characteristics like duration, direction, and persistence.
- **RealTime Monitoring & Mapping:** Supports GIS mapping and real time adjustments to simulate wind changes and other environmental variables, making every session unique.
- **Multiplatform Compatibility:** Integrates with a range of Argon simulators, including the M4 JCADSIM, CAMSIM, AP2CSIM, and others, allowing simultaneous, multi threat exercises.



PlumeSIM-SMART



Our App-based training system provides you with the capability to deliver practical, highly engaging Command Officer and survey operative tabletop and live field CBRNe / HazMat and offsite release exercises incorporating gaseous, radioactive, Hazardous Material (HazMat) and Chemical Warfare Agent (CWA) threats and releases.

PlumeSIM-SMART Simulates:

- Single or multiple threats / releases including Radioactivity, Radioactive compounds, TICs / TIMs and CWA
- Real-time chemical or radiation plume variation to changes in wind direction and velocity and evaporation, deposition, persistency, radioactive fallout and decay
- Hot spots, static emissions, hidden / activated radiological dispersion devices, puffs and plumes and placement of water barriers to restrict plume from sensitive areas
- Sources comprising Individual or multiple radionuclides and foot, fixed or vehicle based survey / monitoring / reconnaissance



RS340 Back Pack



Based upon the Lawrence Livermore National Laboratory RaFTS Gamma Spectrometry simulation technology and developed in collaboration with Radiation Solutions Inc., the RaFTS-RS340 Gamma simulation module enables you to temporarily convert your operational RSI RS340 back pack into a powerful training system.

Substituting the RS340 detector, the RaFTS module responds to our GS Series simulation Gamma Sources which can be programmed to represent a variety of Industrial, Nuclear, Medical and even Specialist Nuclear Material (SNM) radionuclides and can be discretely hidden within buildings, open field, vehicles and even body worn rucksacks for specialist search and threat identification exercises.

For larger area exercises multiple GS series sources can be deployed or PlumeSIM provides the perfect solution.

Multi-Device Compatibility

The RS340 back pack responds in exactly the same way as it would for real radionuclides with count rate a spectra faithfully reproduced in real time with all standard user alarms and visual alerts including spectra displays presented on you Bluetooth linked RS340 mobile App.

Compatibility with all Argon Electronics survey, Personal Radiation Detector (PRD) and personal dosimeter simulators provides you with a powerful multi detector search team exercise capability so that you can ensure your teams maintain optimal operational readiness.



UDR-13 & UDR-14 SIM



Thanks to a combination of Argon's wealth of simulation experience and our relationship with Mirion, the look, feel and response of the UDR-13 and UDR-14 radiation training simulators is extremely close to that of actual detectors.

The simulators respond to RADSIM electromagnetic sources that safely simulate ionizing radiation eliminating regulatory, environmental, and health and safety concerns for you and your students.

Key Features

- Simulated Science: Inverse square law ($1/r^2$) response within real detector tolerance and accurate representation of different shielding effects.
- Unmatched Realism: Has the same human interface and dose rate alarm settings as the real detector.
- Comprehensive Training: Optional units of measurement available include Gy/hr, Sv/hr, Rem, and CPM.
- Cost Effective: Uses the same commercial batteries as real detector and doesn't require regular calibration or maintenance.



Radsim DS3 Mini 900



The Radsim DS3 Mini 900 Simulator revolutionizes radiation safety training by replicating the detection capabilities of the Thermo Mini Monitor 900 EP15. Designed with photon based fluorescent simulation technology, this powerful training tool allows users to detect Alpha and Beta particles without any environmental or safety risks.

From educational institutions and hospitals to nuclear facilities and emergency response units, the Radsim DS3 provides a safe, hands on learning experience, equipping trainees to respond effectively in contamination scenarios.

Key Features

- **Realistic Simulation Technology:** Detects safe, coloured powder, liquid, and cream simulants on various surfaces—including protective gloves, food, and even simulated contaminated water.
- **Customizable Detection Modes:** Easily configure the Radsim DS3 for Alpha, Beta, or combined Alpha Beta detection, simulating varied particle detection for an authentic hands on experience.
- **Scenario Adaptability:** Adjustable settings for background noise, mute, and alarm thresholds allow instructors to align the simulation environment with specific training objectives, enhancing immersion.
- **Environmentally Safe Simulants:** Made from common dyes, food additives, and cosmetic grade bases, all simulants are nontoxic, with full ingredient transparency for uncompromised safety.





Nuvia CoMo 170 Contamination Training Simulator

The Nuvia CoMo 170 simulator replicates the operational features of the operational CoMo 170 contamination detector, enabling safe and effective radiation training. By eliminating the need for ionising radiation sources, this system ensures regulatory, environmental, and health safety compliance while offering unparalleled realism.

Key Features

- **Advanced Simulation Technology:** Accurate replication of the CoMo 170 detector with fully functional alarm, language, and configuration options.
- **Dynamic Training Scenarios:** Supports training for survey, location, and decontamination tasks.
- **Integrated Training Solutions:** Compatible with Argon's Plume SIM system for wide-area emergency response exercises. Allows simultaneous multi-detector and multi-hazard training with Argon simulators.



AN/PDR 77 ALPHA & BETA SIM PROBES



The RADSIM A-SIM-P and B-SIM-P radiation training simulator probes are for use with the Mirion / Canberra AN/PDR-77 and RDS100 survey meters. These probes provide you with a training system that enables your students to experience the operational features of the real detector without the need for real radiation sources or radioactive materials.

Key Features

- Operational Realism: Compatible with Mirion/Canberra meters including AN/VDR-2, PDR-77, and RDS100 with identical functionality and readings as the real probes.
- Dynamic Training Scenarios: Supports training for search, reconnaissance, survey, location, and decontamination procedures.
- Instructional Ease: Instructor remote control for simulating partial/full decontamination and probe failure at the push of a button.
- Advanced Simulation Capabilities: Simulates radiation hazards with realistic response and shielding effects.





GMP-11 Radiation Safety Training Simulator Probe

The GMP-11-SIM is an advanced Beta radiation contamination training simulator designed for the Mirion GMP-11 probe. This simulator seamlessly connects to your Mirion RDS-200 or Argon RDS-200-SIM, providing an authentic training experience without the need for ionising radiation sources or radioactive materials.

Key Features

- **Accurate Simulation:** Responds to safe, inexpensive fluorescent powder and liquid materials that simulate beta radiation. Automatically detected by the RDS-200-SIM for seamless operation.
- **Training Versatility:** Compatible with both real RDS-200 and RDS-200-SIM survey meters.
- **User-Friendly Design:** Logarithmic analogue bar graph and numeric dose rate display.





M4A1 JCAD Chemical Hazard Detection Simulator

The M4A1 JCAD-SIM is a high-fidelity simulator for the Smiths Detection M4A1 JCAD, enabling safe, effective, and environmentally friendly training for chemical warfare and hazardous material scenarios.

Designed to preserve operational readiness and reduce costs, this simulator ensures your team is prepared for real-world challenges while extending the lifespan of your actual detection equipment.

Key Features

- **True-to-Life Interface:** Perfectly mimics the actual detector, supporting a seamless transition from training to real-world response.
- **Comprehensive Threat Simulation:** Detects and simulates a wide array of agents, including nerve, blister, and blood agents, toxic industrial chemicals (TICs) and false positives.
- **Environmental Adaptability:** Simulate varied conditions like wind direction, temperature shifts, and night vision
- **Enhanced Control for Instructors:** With a dedicated remote, instructors can set decontamination effectiveness, persistency, and contamination levels



6150AD-K Contamination Simulator



Radiation Hazard Detection Simulator

- Large area contamination simulation 6150AD-K probe for Automess 6150AD
- Responds to safe simulation radiation sources
- Simulation of partial and full decontamination
- Simulation of detector cover plate
- Simulation of contamination of sensor face
- Perfect for radiation, HazMat and CBRN training, exercises and scenarios.



RADSIM GS4



The RADSIM series of highly realistic simulation gamma radiological sources overcome the regulatory, financial and administrative burden of live radiological source based training scenarios in an entirely safe, environmentally friendly and cost effective manner.

What truly sets the RADSIM series apart is the realism of the simulation – hide the simulation detector training label and the “Pucker Factor” is as real as it gets!

Key Features

- Dose rate and Dose readings and alarms indicating potentially hazardous radiation levels.
- Inverse square law ($1/r^2$) response and shielding effects of different materials.
- Consistent readings across instruments each time the student revisits the same location within the exercise.



MultiGAS SIM



MultiGAS-SIM supports from one to a total of six different simulation sensor types, including O₂, CL₂, SO₂ and LEL. Instructors can configure the MultiGAS-SIM to incorporate specific simulation sensors as required to represent fielded single or multiple sensor MultiGAS detectors. You can even configure the visual layout of the sensors on the display screen to accurately replicate the sensor layout configuration of your operational detectors.

Key Features

- **Realistic Training:** Mimics the operation of real gas detectors, providing trainees with practical, hands-on experience.
- **Customizable Scenarios:** Enables tailored training for a wide range of hazardous environments and operational conditions.
- **Enhanced Learning:** Real-time feedback through instructor monitoring ensures trainees learn from their mistakes in a controlled, safe environment.
- **Advanced Simulation Features:** Features realistic O₂ readings and LRVS simulation gas emitters detected up to 25 meters (80 feet).



RDS Beta Photon Probe Simulator



The D-tect SYSTEMS Beta Photon radiation simulator probe has been designed to work with Argon's simulation RDS base unit.

The simulation Beta Photon Probe can be connected directly to the Simulation RDS base unit by flexible cable, or can be mounted on the Telepole enabling you to practice remotely monitoring high level radiation sources from a safe distance.

You can "hot connect" and disconnect the simulation Beta Photon Probe just like the real instrument – no need to turn the simulation RDS base unit off and most impressively the base unit display screen splits just like real providing real time simulated reading from both base unit and remote Beta Photon Probe enabling your trainees to experience the higher reading obtained due to the Beta Photon Probe while monitoring the base unit reading which represent the hazard at their personal location.

Inverse square law response is extremely realistic; even the effect of shielding between the probe and base unit to determine source position is realistically simulated enabling you to ensure survey teams understand what to do when that emergency comes.

Key features:

- Inverse square law ($1/r^2$) response within real detector tolerance.
- Simulation of user body shielding for source location.
- Realistic representation of different shielding effects.
- Responds to Simulation check source.
- No regular calibration.
- No preventative maintenance.
- PlumeSIM compatible.
- Compatible with other Argon radiological simulators.





Ludlum 133-6 and 44-2 Radiation Simulation Probes

The Ludlum 133-6-SIM and 44-2-SIM are advanced radiation simulator probes designed to replicate the operational features of the Ludlum 133-6 Gamma detector and the 44-2 scintillation detector.

These simulators provide unmatched realism and usability, enabling trainees to master radiation search, survey, and localisation skills without the need for real radioactive sources. Compatible with Ludlum meters, these probes offer a versatile and cost-effective solution for comprehensive radiation safety training.

Key Features

- Expertly Designed: Identical user interface and operational characteristics to the real 133-6 and 44-2 detectors.
- Incredible Realism: Response speeds closely mimic real detectors, supporting realistic source search and localisation exercises.
- Effortless Integration and Versatility: Compatible with any Ludlum meter supporting 133-6 or 44-2 probes. o Fully compatible with PlumeSIM and other Argon simulation systems.
- Simulated Science: Inverse square law ($1/r^2$) response within real detector tolerance.





The RDS-100-SIM 3-Probe simulator set offers a cutting-edge training system that replicates the operational features of an operational Canberra RDS-100, AN/PDR-77, and CDV 718 probes.

Designed to simulate Alpha, Beta, and Gamma radiation without the need for real radioactive sources, this system provides a safe, practical, and environmentally friendly solution for mastering radiation safety skills.

Key Features

- BG-SIM-P: Simulates the Beta/Gamma probe, compatible with the RDS-100, AN/PDR-77, and M-243/VDR-2 meters.
- A-SIM-P: Simulates the Alpha probe for contamination and decontamination training.
- B-SIM-P: Simulates the Beta probe for Pancake detector functions



AN/VDR 2 DT616-SIM Radiation Safety Training Simulator



The DT616-SIM is a high-fidelity Beta/Gamma radiation training simulator designed for use with Mirion/Canberra AN/VDR-2, PDR-77, RDS100, and CDV 718 survey meters.

This innovative simulator allows trainees to experience the full operational functionality of the DT616 probe without the need for live radiation sources, ensuring safe, compliant, and practical training for critical radiological scenarios.

Key Features

- **Advanced Simulation Capabilities:** Simulates both Beta and Gamma radiation hazards with realistic inverse square law ($1/r^2$) response and shielding effects.
- **Operational Realism:** Compatible with Mirion/Canberra meters including AN/VDR-2, PDR-77, and RDS100 with identical functionality and readings as the real DT616 probe.
- **Dynamic Training Scenarios:** Supports training for search, reconnaissance, survey, location, and decontamination procedures with encoded signals simulate specific Gamma emitting radionuclides.
- **Instructional Ease:** Instructor remote control for simulating partial/full decontamination and probe failure at the push of a button.



ADM300A-SIM Radiation Training Simulator



The ADM300ASIM is a cutting-edge radiation training simulator, designed in collaboration with Mirion to replicate the functionality of the ADM300A radiation survey meter.

Providing seamless compatibility with your operational equipment, this simulator ensures safe, realistic, and comprehensive training without the need for ionising radiation sources.

Key Features

- **Unparalleled Realism:** Accurately simulates dose, dose rate, accumulated dose, and alarm thresholds using safe Beta and Gamma simulation sources.
- **Simulated Science:** Excellent simulation of inverse square law and body shielding effects.
- **User-Friendly Design:** Identical menu structure, software processing, and interface to the real ADM300A V1b meter, with visual and audible alarms fully configurable to match your operational equipment.
- **Advanced Compatibility:** Fully integrated with Argon's PlumeSIM and supports multi-detector and multi-threat scenarios with other Argon simulators.





MCAD-SIM Chemical Warfare Detection Simulator







Nuvia DoMo Radiation Hazard Detection Simulator









AP4C-SIM Chemical Detector Simulator

The AP4C-SIM is a state-of-the-art simulation training system designed collaboratively between Argon and Proengin to replicate the operational capabilities of Proengin's AP4C chemical hazard detector. Provide your security force, first responder, and industrial safety teams with a realistic and comprehensive training experience—without the risks associated with live chemical agents.

The AP4C-SIM allows your team to practice detecting chemical vapours, toxic industrial substances (TICs), and even false positives in various environments, all while using safe, electronic simulation sources.

Key Features

- **Realistic Simulation:** Responds to electronic sources simulating CWAs, TICs, and explosive atmospheres
- **Safe and Environmentally Friendly:** Eliminates the need for harmful simulants, allowing realistic training without environmental impact or safety compromise..
- **Instructor Control:** A remote control provides instructors with full control over scenario management in real-time, allowing trainers to adjust contamination levels, wind direction, and temperature effects.
- **Simulation Tools:** The system includes simulation sources, hydrogen cells, error reporting cards, survey nozzles, and a carry case for easy transport. The simulator is ready to go from the box with minimum set up required.



D-tect SYSTEMS RDS Radiation Training Simulator



SVG-2 Radiation Hazard Detection Simulator



The SVG-2 SIM is an advanced simulator designed to replicate the Thermo Fischer Scientific SVG-2 Radiac Meter with exceptional accuracy.

Offering a safe, practical, and cost-effective training solution, this simulator eliminates the need for ionising radiation sources, ensuring students can safely learn essential survey and reconnaissance skills in any environment.

No preventative maintenance, calibration or consumables (except batteries) are required ensuring whole life cost of ownership is minimal, expensive damage to real detectors is avoided and operational readiness is maintained.

Additionally, the SVG-2 SIM eliminates the regulatory, health, and environmental concerns of real radiation sources.

Key Features

- **Advanced Simulation Capabilities:** Simulated external Alpha, Beta, Gamma probe for contamination monitoring and decontamination exercises. Dose and dose rate indications with analogue and digital backlit displays.
- **Operational Realism:** Identical interface as the real SVG-2 detector, inverse square law ($1/r^2$) response, and realistic shielding effects.
- **Flexible Training Applications:** Compatible with PlumeSIM for wide-area tactical field and emergency response exercises. Multi-detector, multi-isotope capability for comprehensive scenario development.



RadEye GF-10 SIM



Overzicht:

De RadEye™ GF-10-simulator biedt realistische, risicovrije training voor stralingsdetectie en bootst de functionaliteit van de Thermo Fisher RadEye™ GF-10 na. Het is een veilige, effectieve oplossing voor praktische oefeningen, zonder blootstelling aan ioniserende straling.



Kenmerken:

Ongeëvenaarde simulatienauwkeurigheid: Realistische respons volgens de omgekeerde kwadratswet binnen de werkelijke toleranties van de detector. Simuleert de afscherming door het lichaam van de gebruiker en de effecten van afschermingsmateriaal voor nauwkeurige training in het lokaliseren van bronnen.

Gebruikersinterface: Identieke display, schakelpaneel, geluidsalarm en vibrator als de operationele RadEye™ GF-10. Configureerbare menuopties, waaronder meeteenheden (Sv/uur, Rem, CPS), taalkeuze en dosis- en dosissnelheidswaarschuwingen met aanpasbare instellingen.

Naadloze integratie: Volledig compatibel met Argon's Plume SIM voor grootschalige CBRN- en HazMat-oefeningen met meerdere apparaten.

Training in straling met hoge impact

De RadEye™ GF-10-simulator biedt een levensechte trainingsservaring door de interface, audio-/visuele signalen en reactiesnelheid van de echte detector na te bootsen. Hij ondersteunt realistische oefeningen voor het opsporen van bronnen met detectie van de Radsim GS4-simulatiebron op afstanden tot 60 meter.

Met een nauwkeurige simulatie van gevoeligheid en het gedrag van de omgekeerde kwadratswet kunnen trainers cruciale

Consistente, herhaalbare prestaties

Krachtige, gepatenteerde signaalverwerking zorgt voor consistente, herhaalbare meetresultaten telkens wanneer een scenario opnieuw wordt doorlopen. Gesimuleerde reacties op meerdere apparaten blijven binnen de toleranties van echte detectoren, waardoor hoogwaardige, realistische trainingen worden geboden die voldoen aan professionele normen.

Train slimmer, train veiliger

RadEye™-simulators zijn volledig compatibel met het

stralingsbeschermingsprincipes zoals tijd, afstand en afscherming demonstreren en onderwijzen zonder de veiligheids-, regelgevings- of milieukwesties die gepaard gaan met het gebruik van echte bronnen.

PlumeSIM-systeem van Argon, dat door toonaangevende trainingsfaciliteiten wereldwijd wordt gebruikt voor live veld- en tabletop CBRN-oefeningen. PlumeSIM maakt realtime, grootschalige noodhulpopleidingen mogelijk met meerdere gesimuleerde apparaten die reageren op virtuele gevaren.



LCD3.3-SIM Chemical Hazard Detection Simulator





Raid-100M Training Simulator



The RAID-M100 Chemical Hazard Detection Simulator is an advanced training tool designed for military and civil CBRNe responders. Specifically engineered to emulate the Bruker Daltonics RAID-M100, this simulator replicates its features, responses, and operations to deliver unmatched realism in training.

Whether preparing for chemical warfare agents (CWAs) or toxic industrial chemicals (TICs), the RAID-M100-SIM provides a safe, practical, and cost-effective solution for mastering critical detection skills.

Key Features

- **Versatile Hazard Simulation:** Identifies CWAs, TICs, and false positives and simulates persistent and non-persistent substances. Replicates contamination and decontamination scenarios, including probe contamination.
- **Realistic Instrument Interaction:** Functional sieve pack and filter replacement and monitoring of user errors such as missed confidence tests or procedural oversights.
- **Rapid Deployment:** Set up scenarios in under 10 minutes for maximum training flexibility.
- **Sustainability & Cost Efficiency:** Requires no ionizing radiation, calibration, or preventative maintenance. Operates with electronic simulation sources that are safe and environmentally friendly.



Dräger X-am Series Simulator



Developed in cooperation with Dräger, the Argon Electronics X-am 2x00/5x00 SIM replicates the full functionality of the Dräger X-am 2x00 and 5x00 series gas detectors, offering a powerful, engaging, risk-free training experience. Responding to Argon's safe, environmentally friendly simulation long range vapour sources (LRVS), instructors can quickly implement a wide variety of confined space and open area training scenarios.

Perfect for confined space, open area and gas leak detection and management training, the Dräger X-am series simulator helps ensure responders have the confidence to conduct gas monitoring, interpret readings, and respond to alarms without exposure to real gas hazards, depleted oxygen or explosive atmosphere.

Key Features

- Realistic Gas Detection Training: accurate replicates detection and alarm responses
- Seamless Compatibility: Works with Dräger's standard configuration software
- Data-Driven Training: Compatible with Dräger Gas Detection Connect for live data transmission.
- Multi Detector Exercises: Compatibility with Argon's CWA / TIC detector simulators for specialist team multi detector response exercises.
- Flexible Multi-Scenario Training: Integrates with Argon's simulation vapour sources and PlumeSIM for dynamic scenarios.





Dankzij een combinatie van de rijke simulatie-ervaring van Argon en onze relatie met Tracerco, komt het uiterlijk, het gevoel en de respons van de Personal Electronic Dosimeter (PED+) Simulator extreem dicht in de buurt van die van een echte detector.

PED+SIM reageert op elektromagnetische bronnen van Radsim die op veilige wijze ioniserende straling simuleren, waardoor problemen op het gebied van regelgeving, milieu, gezondheid en veiligheid voor u en uw leerlingen worden geëlimineerd. U kunt de simulatiebronnen in de open lucht of binnen gebouwen gebruiken.



Stralingstraining met hoge impact

Om de ultieme trainingservaring te garanderen, zijn alle componenten van de gebruikersinterface (display, indicatoren, schakelpaneel, sirene en vibrator) exact hetzelfde als de echte detector.

Reactiesnelheid en kenmerken bij het naderen en terugtrekken uit de simulatiebron zijn net als bij de echte detector, waardoor u zeer realistische bronzoek-/vindtraining kunt geven.

Dankzij de gesimuleerde gevoeligheid kan de Tracerco PED+SIM de Radsim GS4-simulatie Gamma-bron detecteren op een afstand in de vrije ruimte van normaal gesproken 60 meter afstand.

Consistente, herhaalbare prestaties

Krachtige, gepatenteerde signaalverwerking zorgt ervoor dat gesimuleerde metingen herhaalbaar zijn telkens wanneer leerlingen dezelfde scenariolocatie opnieuw bezoeken, terwijl ze er ook voor zorgen dat de metingen die op verschillende simulatoren worden waargenomen binnen de geaccepteerde toleranties van daadwerkelijke detectoren vallen; ze dragen allemaal bij aan het aanbieden van hoogwaardige, realistische training.

Zelfs het effect van lichaamsafscherming van de gebruiker om de bronpositie te bepalen, wordt realistisch gesimuleerd, zodat u er zeker van kunt zijn dat uw onderzoeksteams begrijpen hoe ze hun detectorwaarden en alarmen effectief moeten gebruiken en interpreteren.

Belangrijkste kenmerken:

- Reactie volgens de omgekeerde kwadratenwet ($1/r^2$) binnen de reële detectortolerantie.
- Simulatie van lichaamsafscherming van de gebruiker voor de bronlocatie.
- Realistische weergave van verschillende afschermingseffecten.
- Selecteerbare meeteenheden (Sv/hr, Rem, CPS).
- Dezelfde menselijke interface als echte Tracerco PED+.
- Configureerbare menu-instellingen.
- Alarminstellingen voor dosis en dosissnelheid.
- Taal selectie.
- Dezelfde batterij als een echte detector (ongeveer 36 uur standaardgebruik, 150 uur gebruik in screensavermodus).
- Geen reguliere kalibratie.
- Geen preventief onderhoud.



Afscherming van tijdafstand

Met de PED+ trainingssimulator kan het belang van tijd-/afstandsafscherming gemakkelijk worden aangeleerd en gedemonstreerd; de activiteit van de gesimuleerde bron wordt realistisch verminderd afhankelijk van het materiaal tussen de simulatiebron en de gesimuleerde detector.

Door de uiterst realistische inverse square law-reactie kan de krachtige beschermende combinatie van afstand en afscherming worden gedemonstreerd, waardoor studenten de communicatie van aanbevelingen

en veiligheidsprocedures kunnen oefenen zonder de wettelijke, veiligheids-, milieu- en kostenbeperkingen die met echte bronnen gepaard gaan.

Kosteneffectieve realistische training

Er zijn geen preventief onderhoud, kalibratie of verbruiksartikelen (behalve batterijen) nodig, waardoor de eigendomskosten gedurende de hele levensduur minimaal zijn, dure schade aan echte detectoren wordt vermeden en de operationele gereedheid behouden blijft.

PlumeSIM-compatibel

PED+SIM is compatibel met PlumeSIM, Argon's beproefde Live Field en Tabletop CBRN oefensysteem. PlumeSIM wordt gebruikt door veel van 's werelds toonaangevende trainingsfaciliteiten en maakt het mogelijk dat realtime geïndstrumenteerde tactische veld- en nucleaire / HazMat / Chemical Warfare noodhulp oefeningen over een groot gebied worden uitgevoerd met behulp van enkele of meerdere typen simulatieapparaten die in realtime reageren op gesimuleerde gevaren.

PED is een handelsmerk van Tracerco. Tracerco is een handelsmerk van Johnson Matthey.

LICHAAMSMONITORS





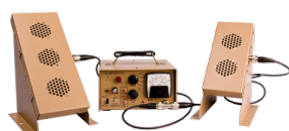
Ludlum Measurements, Inc. is een vertrouwde wereldwijde leverancier van instrumenten voor stralingsdetectie en -monitoring en biedt robuuste, nauwkeurige oplossingen voor personeelsveiligheid, milieubescherming en beveiligingsscreening. Sinds 1962 wordt hun apparatuur wereldwijd gebruikt in toepassingen variërend van kernenergie en noodhulp tot grensbewaking en monitoring van kritieke infrastructuur.

Product offering

**Model 215 Alpha
Frisker Station**



**Model 177HFM Low
Cost Hand & Foot
Monitor**



**Model HFC-8 Hand,
Foot, and Clothing
Monitor**



**Model 4906P Alpha-
Beta-Gamma Hand &
Foot Monitor**



**Model 4906AB Alpha-
Beta Hand & Foot
Monitor**



**Model 4906A Alpha
Hand & Foot Monitor**



**Model 4901P Beta-
Gamma Hand & Foot
Monitor**



**Model 3276HFM Low
Cost Hand & Foot
Monitor**



**Model 3277HFM
Compact Alpha-Beta
Hand & Foot Monitor**



**Model 53 Gamma
Portal Monitor**



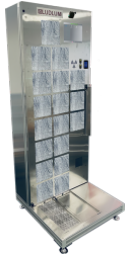
**Model 52-1, 52-5 &
52-6 Series Portable
Portal Monitors**



**Model 52 Portable
Portal Monitor**



**Model HBP-22 Body
Contamination
Monitor**



**Model HBP-29 Body
Contamination
Monitor**



**Model 375P-1000
Outdoor Radiation
Contamination
Monitor - Ludlum**



Model 215 Alpha Frisker Station



Ludlum Model 215 is a unique dual-purpose alpha contamination detection system that can be used as both a stationary detector and a mobile frisker. When alongside a glovebox, the operator can use this innovative device as a stationary hand frisker, then simply remove it from the charging stand for use as any other mobile alpha frisker.

This convenient, integrated detector design requires no batteries, P-10 counting gas, or cables, giving the user complete freedom in performing frisking duties. The large area, air proportional detector has built-in electronics, display, and capacitors that allow it to be operated for at least 10 minutes, typically 15 minutes, before needing to be recharged. Fully discharged, the detector is ready for stationary operation within five minutes of being placed into the charger stand, and ready for mobile frisking within 30 minutes. The charging stand interfaces to a PC to facilitate setting parameters and running high voltage plateaus via an optional application program.

Features

- Dual Purpose Alpha Frisker & Hand Monitor Station
- Detector Operates Independent of Its Stand
- Simple to Use
- No Batteries, Cables, or Gas Required



Model 177HFM Low Cost Hand & Foot Monitor



This setup offers a low-cost alpha/beta/gamma contamination monitoring system for checking hands and feet.

To build this system, order the following items:

- **Model 177** Benchtop Meter (PN: 48-1632)
- **Model 44-25** Hand Detector (PN: 47-1508)
- **Model 44-26** Foot Detector (PN: 47-1509)
- Connection Tee (PN: 13-7788)
- 1.5 m (5 ft.) Cable (PN: 40-1004-5)

Features

- Detects alpha, beta, and gamma
- Low cost
- Easy to set up



Model HFC-8 Hand, Foot, and Clothing Monitor



Robust and Portable Hand-Foot-Clothing Monitor with Touch-Screen Display

The HFC-8 is a compact hand, foot, and clothing monitor to measure personnel leaving controlled areas. With a removable probe and spring-loaded hand detectors, the HFC-8 has been developed for portability between different areas. Featuring a detector arrangement to measure the hands and feet in one measurement step, the HFC-8 integrates the latest technology and design, while meeting official standards.

Various detector options are available, including:

- Beta detectors (plastic scintillator)
- Beta-Gamma detectors (plastic scintillator)
- Alpha/Beta detectors (plastic scintillator or gas-flow proportional)

The standard unit consists of:

- 8 detectors with semiconductor readout, one of them as removable hand probe
- Robust stainless-steel housing
- Ergonomic detector positioning
- Integrated 12 in. touch-screen display
- Fully automated measurement process with audiovisual operator guidance
- Latest industry controller technology
- Power provided by UPS for several measurements during mains power outage

Features

- Intuitive User-Friendly Software
- Spring-Loaded Hand Detectors for Reliable Contact with the Hand Surfaces
- Compact Footprint with Easy Access to the Service Cabinet
- Modern Touch-Screen Display
- Stainless Steel Housing for Easy Cleaning and Durability
- Access to Historical Measurement Data via Integrated Database
- Export of Measurement/Parameter Data in XML Format via USB



Model 4906P Alpha-Beta-Gamma Hand & Foot Monitor



The Model 4906P is a low cost, industrial duty, alpha-beta-gamma contamination monitoring system that uses six pancake cluster detectors for checking personnel. A large color LCD presents users with the system status and points out any potential contamination in an easy-to-use manner. Alarms are annunciated locally and can be augmented with optional relays for signaling remote devices or a light stack mounted on top.

All maintenance can be performed from the front of the instrument. Detector access for quick replacement or repair is facilitated by hinged top covers. The unit is equipped with rear-mounted wheels to facilitate transporting the instrument from one location to the next.

Features

- GM Pancake Detectors
- Large LCD User Interface
- Automatic Routines for Detector Setup & Alarm Calculations
- Customizable Voice Prompts
- Single-Hand Operational Mode
- Front Access to All Components for Repair/Calibration





Model 4906AB Alpha-Beta Hand & Foot Monitor

The Model 4906AB is a low cost, industrial duty, alpha and beta contamination monitoring system for checking personnel hands and feet. A large color LCD presents users with the system status and points out any potential contamination in an easy-to-use manner.

The system employs six gas flow proportional type detectors with counting activated by optical switches. Alarms are annunciated locally and can be augmented with optional relays for signaling remote devices or a light stack mounted on top. The built-in Ethernet interface supports connection to a network for gathering all count cycles and remote monitoring of the status.

All maintenance can be performed from the front of the instrument. Detector access for quick replacement or repair is facilitated by hinged top covers. The unit is equipped with rear-mounted wheels to facilitate transporting the instrument from one location to another.

Features

- Alpha-Beta Gas Flow Proportional Probes
- Large LCD User Interface
- Automatic Routines for Detector Setup and Alarm Calculations
- Voice Prompts
- Built-in Ethernet Interface
- Single-Hand Operational Mode
- Front Access to All Components for Repair/Calibration



Model 4906A Alpha Hand & Foot Monitor



The Model 4906A is an industrial-duty, low-cost, alpha-only contamination monitoring system for the hands and shoes of personnel. System status and areas of possible contamination are presented in a large color LCD making the process simple and user-friendly.

Counting is initiated by optical switches that activate six air-proportional-type detectors. Alarms annunciate locally and can be augmented with optional relays that will signal remote devices or a high-visibility alert light mounted on top of the unit. The built-in Ethernet interface supports connection to a network for gathering all count cycles along with permitting remote monitoring of the status of the instrument.

All maintenance can be performed from the front of the instrument. Hinged top covers make accessing detectors for repair or replacement convenient. Rear-mounted wheels allow the instrument to be transported from one location to another with relative ease.

Features

- Alpha Air Proportional Probes
- Large LCD User Interface
- Automatic Routines for Detector Setup and Alarm Calculations
- Voice Prompts
- Built-in Ethernet Interface
- Single-Hand Operational Mode
- Front Access to All Components for Repair/Calibration





Model 4901P Beta-Gamma Hand & Foot Monitor

The Model 4901P Beta-Gamma Hand & Foot Monitor is intended for use as a medium-level beta and gamma contamination monitor. Four count channels are in the standard configuration for monitoring the palm of each hand and the sole of each foot. The Model 4901P employs a total of twenty-two pancake Geiger-Mueller (GM) type detectors, five in each hand detector (palm side only) and six in each foot detector. LED indicators show status and alarm location. The Model 4901P allows parameter updating by viewing the built-in, 16-character LCD display. Detector counts, background, alarm set points, and all parameters may be viewed on the LCD display. Switches at each hand detector initiate an interrogation (both switches must activate). Audible alarm and status change indications are standard.

Features

- Affordable
- Simple to Use
- Automatic Background Subtract
- Password-Protected Parameters
- Alarm Audio Volume Adjustment
- Non-Volatile Memory Requires No Battery Backup



Model 3276HFM Low Cost Hand & Foot Monitor



The Model 3276 is a versatile instrument that can be used for multiple radiation detection or measurement purposes. In this configuration, the Model 3276 is connected to both a Model 44-25 hand monitor detector and Model 44-26 foot monitor detector to monitor personnel for alpha, beta, and gamma contamination. An optional Model 44-9 detector can also be included for frisking.

The Model 3276 features a large, backlit, easy-to-read LCD screen and audible alarms and is controlled using a simple four-button interface. The unit body is made of lightweight, rugged aluminum. It is not intended for outdoor use and should be protected from splashing water.

The Model 3276 can measure radiation in count rate, exposure rate, exposure rate/dose, activity rate, integrated exposure/dose, time-averaged rates, and scaler counts. In this configuration, three modes of operation are available – RATE, MAX, and COUNT – which can be selected by pressing the MODE button. Measurements can be collected in two sets of units (primary and secondary) for RATE and MAX modes in cps, cpm, Bq, dpm, R/hr, or Sv/h units. The user can switch between the two sets of units by pressing the UNITS button.

Instrument setup can be done either through the front-panel controls or via the Lumatic Calibration Kit (PN: 4498-1018). Power is supplied by either four alkaline “AA” batteries or a 9 Vdc wall mount transformer. The Model 3276HFM is shipped ready to use with batteries, a wall transformer, and a calibration certificate.





Model 3277HFM Compact Alpha-Beta Hand & Foot Monitor

The Model 3277HFM Hand & Foot Monitor is intended for checking low-level alpha and beta contamination on personnel. The gasless system incorporates two scintillation detectors, one for the hand and one for the foot. An optional frisker scintillation detector can be included as well.

Measurement is a two-step process, measuring the hand and foot on one side at a time. To begin an automatic count, both the hand and foot must be placed on the respective detectors, activating the infrared (IR) sensor on each detector. User-friendly instructions and the status of each detector is clearly displayed on the large, color touch-screen. The instrument uses a minimum count time mode to automatically determine the count time based on background, alarm setpoints, and other factors. When the count is completed, either a "Clean" or "Alarm" message will be displayed, depending on the configured alarm set-points.

In "Idle" mode, the screen will display the current detector count rates (default) or the accumulated background rate.

If the system includes a frisker, the status of all three detectors are displayed in "Idle" mode, but only the active detector(s) (either both the hand and foot, or the frisker) are displayed when a count is performed. The frisk state is activated when the frisker is removed from the cradle, and the automatic hand and foot count is activated as described above. A lockout prevents the instrument from toggling the display between the frisker and the hand and foot detectors, so that whichever detector is activated first remains active until the sensor is no longer triggered.

The system can communicate through a standard Ethernet connection for remote monitoring. It is powered by a 100 - 240 Vac wall transformer. An optional battery backup is available to ensure constant power. Instrument setup can be done through the touch-screen display or via Ludlum's Lumatic Calibration Software.

Features

- 7-inch Color LCD Display Shows All Readings Simultaneously in a Large, Simple Layout
- Audible & Visual Alert Signals
- Easy to Operate Two-Step System
- Gasless - Uses Dual-Phosphor Scintillation Detectors
- Optional Rechargeable Battery Backup



- Automatic Start of Count
- Minimum Count Time
- Automatic Background Subtraction During Measurements

Model 53 Gamma Portal Monitor



The Model 53 Gamma Personnel Portal detects gamma radiation in or on personnel passing through the portal from either direction. This highly sensitive portal uses eight large plastic scintillation detectors. Shielding is accomplished with either the standard 2.5 cm (1 in.) or optional 5.1 cm (2 in.) thickness of lead. A user-friendly interface guides personnel through the portal monitor via automated voice prompts, and is accompanied with 25.7 cm (10.1 in.) color LCD articulating screens presenting the instrument readiness and status at the ingress and egress. Alarms are manifested both audibly and visually, and can be silenced and acknowledged via control buttons located on either side of the instrument.

Three statistical counting modes are available to maximize throughput, maximize sensitivity, or fix the count time. Several modifiable parameters adjust the alarm set point, including the false alarm probability, detection probability, background sigma coefficient (K_b), and the composite sigma coefficient (K_{s+B}). Fast alarm and clean options provide the ability to quickly determine if personnel are contaminated or clean before the entire count cycle has ended.

There are also four user modes to choose from that include a walk-through mode, a pause mode, a pause-and-turn mode, and a front-and-back mode. Voice prompts may be customized in any language for each of these modes. These prompts can, for example, dictate in-house procedures to follow. Instrument technicians have password-protected access to set up the instrument, and to the advanced automated routines for calibrating and verifying operation.

Easily accessible USB ports facilitate connecting a keyboard to implement changes, input user ID, or upload revised software. The system also includes an Ethernet link. Ludlum's optional Universal Network Software can be used to log instrument status, user activity, and other information from one or more instruments connected to the network. This software broadcasts emails whenever radiological alarms or instrument failures occur, and has the ability to capture images from network cameras that can be stored along with the user ID (if implemented). See the "Options" tab for more information and other available options.





Model 52-1, 52-5 & 52-6 Series Portable Portal Monitors

The Model 52-1, 52-5, and 52-6 Series Portable Portal Monitors are used for beta-gamma contamination monitoring on personnel and meet the FEMA standard for Emergency Response Portal Monitoring (FEMA-REP-21). They are designed to be disassembled for ease of transportation and storage, and can be set up in five minutes or less without any tools.

Each instrument's non-volatile parameters are preset at the factory to detect a $1.0 \mu\text{Ci } ^{137}\text{Cs}$ source in a $10 \mu\text{R/hr}$ background field. Microprocessor-based electronics provide ease of setup and reliability. Status LEDs indicate count-cycle status and audible signals accompany the LEDs for additional indication. Detector counts, background, and all parameters may be viewed on the instrument display. All setup is accomplished by way of pushbuttons located below the display.

These portal monitors can be operated in a walk-through mode with a quick scan occurring while a person is positioned within the portal. In this mode, checking is performed every 200 milliseconds while the portal is occupied, and 600 milliseconds before and 600 milliseconds after the portal is occupied. The portal monitor can also monitor in a stop-and-count mode, allowing for a more sensitive scan. In stop-and-count mode, the fixed count time may be set from 1 to 20 seconds.

These instruments have automatic background update and dynamic alarm setting capabilities. On startup, the instrument will take a background count and calculate alarm levels for each detector. Self-diagnostic routines check the background count and warn if the background becomes either too high or too low.

Alarms are calculated with a user-adjustable sigma parameter and the current background count. During setup, the user can also specify individual alarms only, sum alarm only, or both individual and sum alarm. The sum alarm groups upper detectors and lower detectors.

Included with each instrument are a wheeled transport case and a clear polypropylene sleeve to protect against wet weather conditions.

These instruments are able to operate from 85 to 250 Vac, 50/60 Hz without a voltage selector switch. They may also be



powered from the supplied vehicle cigarette lighter adapter, or three or six “D” cell batteries.

Water-Resistant Versions

Ludlum also offers some water-resistant versions: Models 52-1W (PN 48-4300), 52-1-1W (PN 48-3516) and 52-6-1W (PN 48-4312). Note that these water-resistant versions can only be used for gamma contamination monitoring.

Vehicle Monitoring

The Model 52-1, 52-5, and 52-6 Series can also be used as vehicle monitors using the optional vehicle conversion kit (PN 4215-374 for standard models, PN 4215-1099 for water-resistant models). The kit includes two stands to support the side detectors and a 6.1 m (20 ft.) cable. See Options tab for more information.



Model 52 Portable Portal Monitor

The Model 52 Portal Monitor is used for Beta-Gamma personnel contamination monitoring and meets the FEMA standard for Emergency Response Portal Monitoring (FEMA-REP-21). It is designed to be assembled in five minutes or less without tools, and can be quickly disassembled for ease of transportation and storage. All parameters are stored in non-volatile memory, which requires no battery backup. These parameters allow easy operation with minimal setup by minimally trained personnel. The parameters are preset at the factory to detect a 1 μCi ^{137}Cs beta window source in a 10 $\mu\text{R/hr}$ background field, in accordance with the FEMA standard. The Model 52 can be powered by 120 Vac, six "D" cell batteries, or 220 Vac-powered units, which are available as a special order.

The instrument has a "person-counter" integrated into the electronics that increments by one every time a count is completed. It is a four-digit number normally displayed on the LCD display, next to the "READY" message. It also has an RS-232 port that can be used to print out parameter setpoints, background counts, and counts above background.

The portal frame incorporates an array of 18 Geiger-Mueller (GM) detectors positioned around the frame and base. Fourteen GM pancake detectors are located in the frame for monitoring the head and body. Four cylindrical GM detectors are utilized in the base for monitoring the feet. The electronics are microprocessor-based for ease of setup and reliability. Individual LEDs (Light Emitting Diodes) mounted in the frame and also on the electronics front panel indicate the specific alarm location. LEDs in the front panel indicate count cycle status. Audible signals accompany the LEDs for additional indication. Detector counts, background, and all parameters may be viewed on the LCD display. All setup is accomplished via pushbuttons on the electronics assembly.

The Model 52 incorporates a summing alarm in addition to the individual channel alarms. This increases the system sensitivity to widespread contamination. If two or more channels have a noticeable increase in counts but do not exceed their alarm threshold, the sum of their counts could exceed the summing alarm.

The Model 52 also has background update and subtract capabilities. The instrument will take a background count and subtract it from the current count. This function helps



compensate for fluctuations in background. Background subtract can be turned on or off, the background count time is adjustable, and the background interval time is adjustable. The operator can force the instrument to stop and take a background count at a different interval if desired.

The Model 52 is supplied with a polypropylene weather sleeve to protect against wet weather conditions. Units are also supplied with a rugged, wheeled, and padded transport/storage case for rapid deployment.

Model HBP-22 Body Contamination Monitor

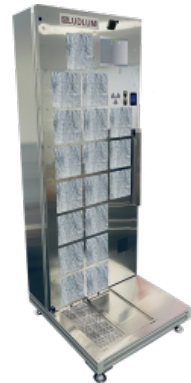


Robust, Ergonomically Designed Body Contamination Pre-Monitor

The Model HBP-22 is a body contamination monitor that utilizes beta plastic detectors to measure personnel as a pre-monitor. Robust, with a modern design that integrates the latest available industrial technology, the system is optimized for users of all sizes.

The key features include:

- 22 beta plastic detectors with semiconductor readout
- Whole body measurement in 2 easy steps
- Automated measurement process with audio-visual user guidance
- Integrated 12 in. touch-screen display
- Intuitive user-friendly software
- Hand-detector on the side
- Latest industry-controller technology
- Energy filter settings to optimize discrimination of background radiation
- Power provided by internal UPS for several measurements during power loss
- Intuitive User-Friendly Software
- Large Service Space in a Footprint of 900 x 840 mm (35.4 x 33.1 in.) (W x D) with Easy Access to the Service Cabinet
- Modern 12 in. Touch-Screen Display
- Stainless Steel Housing for Easy Cleaning and Durability
- Access to Ludlum's Test Tool Software for Detector Analysis
- Export of Measurement/Parameter Data in XML Format via USB
- Access to Historical Measurement Data via Integrated Database
- Network Capability for Remote Monitoring



Model HBP-29 Body Contamination Monitor



The Model HBP-29 is a whole-body contamination monitor designed to measure personnel leaving controlled areas.



Features:

- Intuitive User-Friendly Software
- Large Service Space in a Footprint of 900 x 840 mm (35.4 x 33.1 in.) (W x D) with Easy Access to the Service Cabinet
- Modern Touch-Screen Display
- Access to Ludlum's Test Tool Software for Detector Analysis
- Export of Measurement/Parameter Data in XML Format via USB
- Access to Historical Measurement Data via Integrated Database
- Remote Access via Web Browser Interface

Standard features include:

- 29 beta plastic detectors with semiconductor readout
- Stainless steel housing for easy cleaning and durability
- Ergonomic detector positioning
- Hand-detector on the side
- Integrated 17 in. touch-screen display
- Automated measurement process with audio-visual guidance
- Latest industry-controller technology
- Energy filter settings to optimize discrimination of background radiation
- Power provided by UPS for several measurements during power loss
- Designed to meet industry and regulatory standards



Model 375P-1000 Outdoor Radiation Contamination Monitor - Ludlum

The Model 375P-1000 Outdoor Radiation Contamination Monitor (Ludlum) is a Digital Model 375 controller coupled to 2 shielded 7866 cm² plastic scintillator detectors. The detectors are covered in weathertight enclosures applicable for the outside environment. The Model 375P-1000 Outdoor Radiation Contamination Monitor is perfect for examine outgoing trash and/or medical waste for possible low-level radioisotope contamination.



Model 375P-1000 Outdoor Radiation Contamination Monitor features:

- indicates status, sum alarm, sigma alarm, low battery, det fail and overrange
- 4-digit LED display with 2 cm (0.8 in.) digits
- range: 0.0 to 9999 kcps
- battery backup
- programmable alarms
- network cable
- data output: 9-pin connector providing RS-232 output, signal ground connection, FAIL and ALARM signals and direct connection to battery and ground
- relay output: mains (120 or 240 Vac) output on alarm

Read more about the Model 375P-1000 Outdoor Radiation Contamination Monitor on the [Ludlum website](#)



Helgeson Scientific Services (HSS) ontwerpt en produceert geavanceerde stralingsmonitorsystemen gericht op personeelsveiligheid, faciliteitenbescherming en afvalbeheer. Hun portfolio omvat lichaamsmonitoren, portaaldetectiesystemen en afvalbeheeroplossingen – elk ontwikkeld ter ondersteuning van de veilige verwerking van radiologisch materiaal in kritieke omgevingen.

Product offering

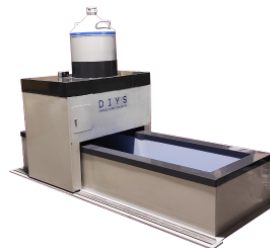
**HS-BEXA - Alpha Beta
hand feet monitor**



**HS-BEX - Beta gamma
hand feet monitor**



**DIYS - Bed type whole
body counter for
internal dosimetry**



**HS-ABOMO - Alpha
beta gamma portal
for personnel
monitoring**



**HS-BOMO - Beta
gamma portal for
personnel monitoring**



**HS-RAM - Gamma
portal for personnel
monitoring**



**QUICKY - Whole body
counter for internal
dosimetry**



HS-BEXA - Alpha Beta hand feet monitor



The HS-BEX monitors are multitasking equipment designed for the detection and measurement of radiation ALPHA and BETA on the hands and feet of potentially exposed personnel through a fully automatic operation.

The system can be configured to have 3, 4, 6 or 7 detectors depending on the application and budget. An equipment that complies with the highest quality standards, designed and assembled in Spain.



HS-BEX - Beta gamma hand feet monitor



The HS-BEX monitors are multitasking equipment designed for the detection and measurement of radiation BETA and GAMMA on the hands and feet of potentially exposed personnel through a fully automatic operation.

The system can be configured to have 3, 4, 6 or 7 detectors depending on the application and budget. An equipment that complies with the highest quality standards, designed and assembled in Spain.



DIYS - Bed type whole body counter for internal dosimetry





HS-ABOMO – Alpha beta gamma portal for personnel monitoring

Multitasking two-step device

The HS-ABOMO unit is a multitasking two-step device designed for the detection and measurement of radioactive contamination, ALPHA, BETA and GAMMA, on potentially exposed personnel.

It has been specifically designed for controlled areas. It includes up to 31 detectors, which work autonomously and independently, allowing to perform simultaneous measurements with different alarm levels.

The user can identify exactly in a different channel the beta cps and gamma cps since the detectors are different for each type of radiation. Its operation is fully automated. The equipment has sensors that detect when a person enters the portal, interrupting the background acquisition and initiating automatically a thorough examination of the subject.



HS-BOMO – Beta gamma portal for personnel monitoring



Multitasking two-step device

The HS-BOMO unit is a multitasking two-step device designed for the detection and measurement of radioactive contamination, BETA and GAMMA, on potentially exposed personnel.

It has been specifically designed for controlled areas. It includes up to 31 detectors, which work autonomously and independently, allowing to perform simultaneous measurements with different alarm levels.

The user can identify exactly in a different channel the beta cps and gamma cps since the detectors are different for each type of radiation. Its operation is fully automated. The equipment has sensors that detect when a person enters the portal, interrupting the background acquisition and initiating automatically a thorough examination of the subject.



HS-RAM - Gamma portal for personnel monitoring



Completely autonomous equipment

The HS-RAM monitors are completely autonomous equipment designed for the detection and measurement of gamma radiation on exposed workers.

They are designed to perform high speed measurements, allowing fast counting of a high volume of nuclear power plant workers. With different versions that customize the number of detectors, size, barriers, etc. the HS-RAM is without doubts the most flexible gamma portal for fast screening of personnel.





QUICKY - Whole body counter for internal dosimetry

Helgeson “Quicky” In-Vivo Counter is designed to complement any health physics program which includes routine whole body counting.

The “Quicky” is used to rapidly screen personnel or it can be used with a fixed counting time to obtain more precise results. The printed results provide the documentation for subject identification, counting time and date. Results are reported in Becquerel or Nano curies. The “Quicky” can reduce your regular counting requirements and costs significantly.

User-friendly software

Software for the “Quicky” is “user-friendly” with a menu format which provides a variety of standard and optional operating programs. System performance software includes a Quality Assurance program which checks the electronics of system, reporting any errors to the operator. An Energy Calibration program allows the gains of the individual detector-amplifier systems to be adjusted to uniformity and conformity to the design parameters.

- Data Acquisition, continuous spectral display.
- Data Analysis with graphs of original data and residuals.
- Calibrations: Energy vs. Channel and Efficiency, FWHM vs Channel.
- Parameter Modification for complete control: acquisition, analysis & miscellaneous parameters.
- File Maintenance.
- Dose calculating software based on ICRP recommendations and approved by the Spanish Nuclear Council.



PORTAALMONITORS





Polimaster is wereldwijd toonaangevend in oplossingen voor stralingsdetectie en -monitoring en biedt een uitgebreid scala aan instrumenten die zijn ontworpen om ioniserende straling in diverse omgevingen te detecteren, identificeren en meten. Hun productassortiment omvat handmonitoren, persoonlijke elektronische dosimeters, draagbare isotoopenidentifiers, portaalmonitoren en mobiele detectiesystemen, allemaal ontworpen om te voldoen aan de strenge eisen van beveiliging, noodhulp en industriële toepassingen.

Product offering

Poligate Light G1 RPM



PoliGate™ Vehicle G4 RPM



PoliGate™ Pedestrian G1 RPM



PoliGate™ Pedestrian GN2 RPM



Poligate Light G2 RPM



Poligate Light G4 RPM



Poligate Pedestrian GN1 RPM



Poligate Deployable RPM



Poligate Pedestrian G2 RPM

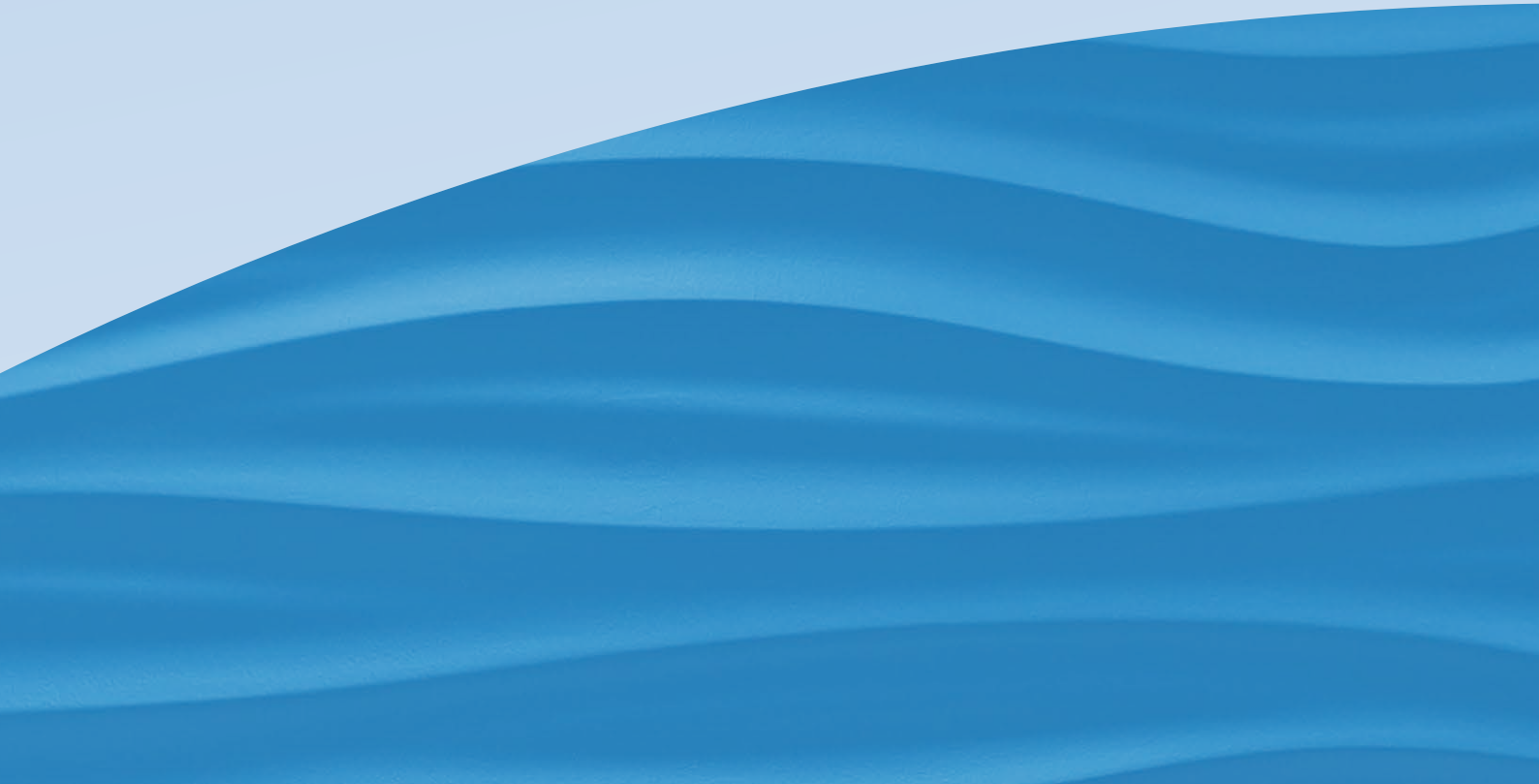


Poligate Vehicle G4N4 RPM



Poligate Vehicle G2 RPM





Poligate Light G1 RPM



Lightweight one-sided model equipped with one gamma detector.

The **PoliGate™ Light G1** is a one-sided **gamma-only** Radiation Portal Monitor (RPM) equipped with one detector and is a **high-sensitive fixed system** designed for permanent installation and providing continuous radiation detection and monitoring of vehicles, people, or packages.

The **PoliGate™ Light series** is a simplified series of Polimaster RPMs that is available in a **more compact and lightweight design** and its detection blocks can be mounted on a frame or wall.

Features

- Lightweight design
- Control zone up to 1.5 m x 2 m (W x H)
- Wide gamma energy range from 20 keV to 3 MeV
- No stop of an object is required for the inspection
- Lead shielding for natural background rejection
- Ingress protection IP55
- Local and remote light and audible alarm annunciators
- Back-up battery providing at least 8 hours of operation
- Presence detection system (occupancy sensors)
- Adjustable sensitivity parameters for specific applications
- Optional video surveillance system





Double-sided gamma model equipped with four gamma detectors.

The **PoliGate™ Vehicle G4** is a double-sided **gamma-only** Radiation Portal Monitor (RPM) equipped with four 11L-gamma detectors and is a **high-sensitive fixed system** designed for permanent installation and providing continuous radiation detection and monitoring of moving objects.

The **PoliGate™ Vehicle series** is an essential tool for safeguarding against the potential threat of nuclear materials entering secure areas and can be used for screening **trains, trucks, vehicles, cargo containers, luggage, and people**.

Features

- IEC 62244:2019 compliance
- Control zone up to 6 x 4.5 (W x H)
- Wide gamma energy range from 20 keV to 3 MeV
- No stop of an object is required for the inspection
- Lead shielding for natural background rejection
- Ingress protection IP65
- Local and remote light and audible alarm annunciators
- Back-up battery providing at least 8 hours of operation
- Presence detection system (occupancy sensors)
- Adjustable sensitivity parameters for specific applications
- Optional video surveillance system



PoliGate™ Pedestrian G1 RPM



One-sided gamma model equipped with one (11L) gamma detector.

The **PoliGate™ Pedestrian G1** is a one-sided **gamma-only** Radiation Portal Monitor (RPM) equipped with one 11L-gamma detector and one neutron detector and is a **high-sensitive fixed system** designed for permanent installation and monitoring of people or packages for the presence of radioactive materials.

The **PoliGate™ Pedestrian series** is an essential component of any facility that requires strict security measures, including government buildings, research facilities, and nuclear power plants. The compact and ergonomic design of the RPM makes it a convenient solution for use in various applications for screening **people, luggage, and cargo**.

Features

- IEC 62244:2019 compliance
- Control zone up to 1.5 x 2 (W x H)
- Wide gamma energy range from 20 keV to 3 MeV
- No stop of an object is required for the inspection
- Lead shielding for natural background rejection
- Ingress protection IP65
- Local and remote light and audible alarm annunciators
- Back-up battery providing at least 8 hours of operation
- Presence detection system (occupancy sensors)
- Adjustable sensitivity parameters for specific applications
- Optional video surveillance system





Double-sided gamma-neutron model equipped with two gamma (6.6L each) and two neutron detectors.

The **PoliGate™ Pedestrian GN2** is a double-sided **gamma-neutron** Radiation Portal Monitor (RPM) equipped with two 6.6L-gamma and one neutron detector and is a **high-sensitive fixed system** designed for permanent installation and monitoring of people or packages for the presence of radioactive materials.

The **PoliGate™ Pedestrian series** is an essential component of any facility that requires strict security measures, including government buildings, research facilities, and nuclear power plants. The compact and ergonomic design of the RPM makes it a convenient solution for use in various applications for screening **people, luggage, and cargo**.

Features

- IEC 62244:2019 compliance
- Control zone up to 1.5 x 2 (W x H)
- Wide gamma energy range from 20 keV to 3 MeV
- No stop of an object is required for the inspection
- Lead shielding for natural background rejection
- Ingress protection IP65
- Local and remote light and audible alarm annunciators
- Back-up battery providing at least 8 hours of operation
- Presence detection system (occupancy sensors)
- Adjustable sensitivity parameters for specific applications
- Optional video surveillance system



Poligate Light G2 RPM



Lightweight double-sided model equipped with two gamma detectors.

The **PoliGate™ Light G2** is a double-sided **gamma-only** Radiation Portal Monitor (RPM) equipped with two detectors and is a high-sensitive fixed system designed for permanent installation and providing continuous radiation detection and monitoring of vehicles, cargo containers, people, or packages.

The **PoliGate™ Light series** is a simplified series of Polimaster RPMs that is available in a **more compact and lightweight design** and its detection blocks can be mounted on a frame or wall.

Features

- Lightweight design
- Control zone up to 6 m x 2 m (W x H)
- Wide gamma energy range from 20 keV to 3 MeV
- No stop of an object is required for the inspection
- Lead shielding for natural background rejection
- Ingress protection IP55
- Local and remote light and audible alarm annunciators
- Back-up battery providing at least 8 hours of operation
- Presence detection system (occupancy sensors)
- Adjustable sensitivity parameters for specific applications
- Optional video surveillance system



Poligate Light G4 RPM



Lightweight double-sided model equipped with four gamma detectors.

The **PoliGate™ Light G4** is a double-sided **gamma-only** Radiation Portal Monitor (RPM) equipped with four detectors and is a high-sensitive fixed system designed for permanent installation and providing continuous radiation detection and monitoring of vehicles, cargo containers, people, or packages.

The **PoliGate™ Light series** is a simplified series of Polimaster RPMs that is available in a **more compact and lightweight design** and its detection blocks can be mounted on a frame or wall.

Features

- Lightweight design
- Control zone up to 6 m x 4.5 m (W x H)
- Wide gamma energy range from 20 keV to 3 MeV
- No stop of an object is required for the inspection
- Lead shielding for natural background rejection
- Ingress protection IP55
- Local and remote light and audible alarm annunciators
- Back-up battery providing at least 8 hours of operation
- Presence detection system (occupancy sensors)
- Adjustable sensitivity parameters for specific applications
- Optional video surveillance system



Poligate Pedestrian GN1 RPM



One-sided gamma-neutron model equipped with one gamma (6.6L) and one neutron detector.

The **PoliGate™ Pedestrian GN1** is a one-sided **gamma-neutron** Radiation Portal Monitor (RPM) equipped with one 6.6L-gamma and one neutron detector and is a **high-sensitive fixed system** designed for permanent installation and monitoring of people or packages for the presence of radioactive materials.

The **PoliGate™ Pedestrian series** is an essential component of any facility that requires strict security measures, including government buildings, research facilities, and nuclear power plants. The compact and ergonomic design of the RPM makes it a convenient solution for use in various applications for screening **people, luggage, and cargo**.

Features

- IEC 62244:2019 compliance
- Control zone up to 1.5 x 2 (W x H)
- Wide gamma energy range from 20 keV to 3 MeV
- No stop of an object is required for the inspection
- Lead shielding for natural background rejection
- Ingress protection IP65
- Local and remote light and audible alarm annunciators
- Back-up battery providing at least 8 hours of operation
- Presence detection system (occupancy sensors)
- Adjustable sensitivity parameters for specific applications
- Optional video surveillance system



Poligate Deployable RPM



Gamma-only model transported in plastic protective cases and designed for fast deployment.

The **PoliGate™ Deployable** is a **gamma-only** Radiation Portal Monitor (RPM) highly sensitive **deployable radiation monitor** designed to detect radioactive and nuclear materials transported through a controlled area.

This fast deployable RPM is designed to provide high mobility and flexibility, allowing it to be used in various settings to **screen individuals, vehicles, or cargo at the scene of an incident or in temporary screening situations** such as at major public mass events.

Features

- No stop of an object is required for the inspection
- Lead shielding for natural background rejection
- Wide gamma energy range from 30 keV to 3 MeV
- Local and remote light and audible alarm annunciators
- Back-up battery providing at least 8 hours of operation
- Presence detection system (occupancy sensors)
- Adjustable sensitivity parameters for specific applications
- Optional video surveillance system
- Optional Ethernet / Wi-Fi connection



Poligate Pedestrian G2 RPM



Double-sided gamma model equipped with two (11L each) gamma detectors.

The **PoliGate™ Pedestrian G2** is a double-sided **gamma-only** Radiation Portal Monitor (RPM) equipped with two 11L-gamma detectors and is a **high-sensitive fixed system** designed for permanent installation and monitoring of people or packages for the presence of radioactive materials.

The **PoliGate™ Pedestrian series** is an essential component of any facility that requires strict security measures, including government buildings, research facilities, and nuclear power plants. The compact and ergonomic design of the RPM makes it a convenient solution for use in various applications for screening **people, luggage, and cargo**.

Features

- IEC 62244:2019 compliance
- Control zone up to 1.5 x 2 (W x H)
- Wide gamma energy range from 20 keV to 3 MeV
- No stop of an object is required for the inspection
- Lead shielding for natural background rejection
- Ingress protection IP65
- Local and remote light and audible alarm annunciators
- Back-up battery providing at least 8 hours of operation
- Presence detection system (occupancy sensors)
- Adjustable sensitivity parameters for specific applications
- Optional video surveillance system



Poligate Vehicle G4N4 RPM



Double-sided gamma-neutron model equipped with four gamma and four neutron detectors.

The **PoliGate™ Vehicle G4N4** is a double-sided **gamma-neutron** Radiation Portal Monitor (RPM) equipped with four 11L-gamma and four neutron detectors and is a **high-sensitive fixed system** designed for permanent installation and providing continuous radiation detection and monitoring of moving objects.

The **PoliGate™ Vehicle series** is an essential tool for safeguarding against the potential threat of nuclear materials entering secure areas and can be used for screening **trains, trucks, vehicles, cargo containers, luggage, and people**.

Features

- IEC 62244:2019 compliance
- Control zone up to 6 x 4.5 (W x H)
- Wide gamma energy range from 20 keV to 3 MeV
- No stop of an object is required for the inspection
- Lead shielding for natural background rejection
- Ingress protection IP65
- Local and remote light and audible alarm annunciators
- Back-up battery providing at least 8 hours of operation
- Presence detection system (occupancy sensors)
- Adjustable sensitivity parameters for specific applications
- Optional video surveillance system



Poligate Vehicle G2 RPM



Double-sided gamma model equipped with two gamma detectors.

The **PoliGate™ Vehicle G2** is a double-sided **gamma-only** Radiation Portal Monitor (RPM) equipped with two 11L-gamma detectors and is a **high-sensitive fixed system** designed for permanent installation and providing continuous radiation detection and monitoring of moving objects.

The **PoliGate™ Vehicle series** is an essential tool for safeguarding against the potential threat of nuclear materials entering secure areas and can be used for screening **trucks, vehicles, cargo containers, luggage, and people**.

Features

- IEC 62244:2019 compliance
- Control zone up to 6 x 2 (W x H)
- Wide gamma energy range from 20 keV to 3 MeV
- No stop of an object is required for the inspection
- Lead shielding for natural background rejection
- Ingress protection IP65
- Local and remote light and audible alarm annunciators
- Back-up battery providing at least 8 hours of operation
- Presence detection system (occupancy sensors)
- Adjustable sensitivity parameters for specific applications
- Optional video surveillance system





Radiation Solutions Inc. (RSI) is een Canadees bedrijf dat gespecialiseerd is in geavanceerde stralingsdetectie- en -monitoringsystemen, met een focus op portaalmonitoren voor diverse toepassingen. Hun technologieën zijn ontworpen om veiligheid en naleving te garanderen in sectoren zoals staal, schroot, recycling en grensbewaking.

Product offering

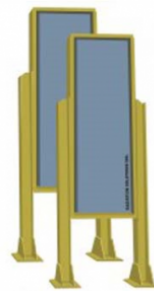
RS-200 / 3000 Radiation Portal Monitoring Systems (Radiation Solutions)



RS-200 / 6000 Radiation Portal Monitoring Systems (Radiation Solutions)



RS-200 / 10000 Radiation Portal Monitoring Systems (Radiation Solutions)



RS-300 Radiation Portal Monitoring Systems (Radiation Solutions)



RS-400 Radiation Portal Monitoring Systems (Radiation Solutions)



RS-200 / 3000 Radiation Portal Monitoring Systems (Radiation Solutions)



De RS-200-systemen (Radiation Solutions) zijn 2 PMT-gebaseerde, volledig digitale systemen, speciaal ontworpen voor de moeilijke bedrijfsomstandigheden van schroot- en aluminiumverwerkingsfabrieken. Deze systemen combineren uitzonderlijke prestaties met minimale valse en hinderlijke alarmen door middel van geavanceerd digitaal ontwerp en spectrale analyse.



Het systeem is volledig modulair, waardoor het gemakkelijk kan worden geconfigureerd om te voldoen aan de lokale logistiek en snel en eenvoudig onderhoud mogelijk maakt. Het systeem werkt onafhankelijk en heeft directe Ethernet-connectiviteit met fabrieksnetwerken. Deze connectiviteit maakt een volledig geïntegreerd fabrieksontwerp mogelijk met de mogelijkheid voor RSO-overzicht op alle geïnstalleerde systemen.

Kenmerken van RS-200/3000 stralingsportaalbewakingssystemen:

- detectorvolume: 1512 in3 (23,5L) – maximaal 16 detectoren
- volledig digitaal systeemontwerp – geen aanpassingen door de gebruiker
- 2 PMT-technologie voor hoge gevoeligheid + hoge ruisonderdrukking 10/sec databemonsteringssnelheid voor optimale data-analyse
- geavanceerd 4096/128-kanaals spectrometersysteem voor verbeterde analyse
- Met spectrale analyse kan het merendeel van de valse, regen- en leegte-alarmen die in de meeste systemen voorkomen, worden afgewezen zonder de systeemgevoeligheid te verminderen
- alarmclassificatie om alarmen te sorteren in schroot- en niet-schrootcategorieën voor een betere controle
- minimale hinderlijke alarmen dankzij geavanceerde signaalscreening en patroonherkenning
- systeemgevoeligheidsanalyse en automatische correctie om signaalverlies te minimaliseren zonder dat er radioactieve bronnen nodig zijn om de systeemprestaties te testen
- 15-inch kleurenaanraakscherm voor eenvoudige gebruikersinterface
- lokale printer voor alarmafdruk
- GPS-verbinding voor nauwkeurige locatie en timingdirecte verbinding met het fabrieksnetwerk waardoor RSO-overzicht van alle alarmen op alle systemen mogelijk is
- realtime (1/sec) foutrapportage aan de RSI-service via internet voor snelle ondersteuning en systeemoverzicht
- 48V-werking om spanningsverlies op lange kabels te minimaliseren
- modulair systeemontwerp voor eenvoudige service ter plaatse door lokaal personeel voor “onmiddellijke” serviceondersteuning
- 24/7 technische ondersteuning voor snelle responsieve ondersteuning van technische mensen indien nodig



RS-200 / 6000 Radiation Portal Monitoring Systems (Radiation Solutions)

De RS-200-systemen zijn op 2 PMT gebaseerde, volledig digitale systemen, speciaal ontworpen voor de moeilijke bedrijfsomstandigheden van schroot- en aluminiumverwerkingsfabrieken. Deze systemen combineren uitzonderlijke prestaties met minimale valse en hinderlijke alarmen door middel van geavanceerd digitaal ontwerp en spectrale analyse.

Het systeem is volledig modulair, waardoor het eenvoudig kan worden geconfigureerd om te voldoen aan de lokale logistiek en snel en eenvoudig onderhoud mogelijk maakt. Het systeem werkt onafhankelijk en heeft directe Ethernet-connectiviteit met fabrieksnetwerken. Deze connectiviteit maakt een volledig geïntegreerd fabrieksontwerp mogelijk met de mogelijkheid voor RSO-overzicht op alle geïnstalleerde systemen.



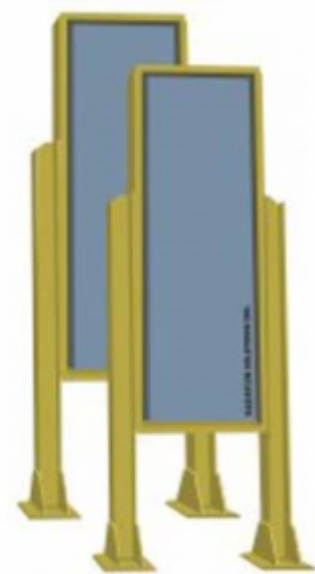
Kenmerken van RS-200/6000 stralingsportaalbewakingssystemen:

- detectorvolume: 3000 in3 (24L) – maximaal 16 detectoren
- volledig digitaal systeemontwerp – geen aanpassingen door de gebruiker
- 2 PMT-technologie voor hoge gevoeligheid + hoge ruisonderdrukking 10/sec databemonsteringssnelheid voor optimale data-analyse
- geavanceerd 4096/128-kanaals spectrometersysteem voor verbeterde analyse
- Met spectrale analyse kan het merendeel van de valse, regen- en leegte-alarmen die in de meeste systemen voorkomen, worden afgewezen zonder de systeemgevoeligheid te verminderen
- alarmclassificatie om alarmen te sorteren in schroot- en niet-schrootcategorieën voor een betere controle
- minimale hinderlijke alarmen dankzij geavanceerde signaalscreening en patroonherkenning
- systeemgevoeligheidsanalyse en automatische correctie om signaalverlies te minimaliseren zonder dat er radioactieve bronnen nodig zijn om de systeemprestaties te testen
- 15-inch kleurenaanraakscherm voor eenvoudige gebruikersinterface
- lokale printer voor alarmafdruk
- GPS-verbinding voor nauwkeurige locatie en timing
- directe verbinding met het fabrieksnetwerk waardoor RSO-overzicht van alle alarmen op alle systemen mogelijk is
- realtime (1/sec) foutrapportage aan de RSI-service via internet voor snelle ondersteuning en systeemoverzicht
- 48V-werking om spanningsverlies op lange kabels te minimaliseren
- modulair systeemontwerp voor eenvoudige service ter plaatse door lokaal personeel voor “onmiddellijke” serviceondersteuning
- 24/7 technische ondersteuning voor snelle responsieve ondersteuning van technische mensen indien nodig



RS-200 / 10000 Radiation Portal Monitoring Systems (Radiation Solutions)

De RS-200-systemen zijn op 2 PMT gebaseerde, volledig digitale systemen, speciaal ontworpen voor de moeilijke bedrijfsomstandigheden van schroot- en aluminiumverwerkingsfabrieken. Deze systemen combineren uitzonderlijke prestaties met minimale valse en hinderlijke alarmen door middel van geavanceerd digitaal ontwerp en spectrale analyse.



Het systeem is volledig modulair, waardoor het eenvoudig kan worden geconfigureerd om te voldoen aan de lokale logistiek en snel en eenvoudig onderhoud mogelijk maakt. Het systeem werkt onafhankelijk en heeft directe Ethernet-connectiviteit met fabrieksnetwerken. Deze connectiviteit maakt een volledig geïntegreerd fabrieksontwerp mogelijk met de mogelijkheid voor RSO-overzicht op alle geïnstalleerde systemen.

Kenmerken van RS-200/10000 stralingsportaalbewakingssystemen:

- detectorvolume: 5000 in3 (73L) – maximaal 16 detectoren
- volledig digitaal systeemontwerp – geen aanpassingen door de gebruiker
- 2 PMT-technologie voor hoge gevoeligheid + hoge ruisonderdrukking 10/sec databemonsteringssnelheid voor optimale data-analyse
- geavanceerd 4096/128-kanaals spectrometersysteem voor verbeterde analyse
- Met spectrale analyse kan het merendeel van de valse, regen- en leegte-alarmen die in de meeste systemen voorkomen, worden afgewezen zonder de systeemgevoeligheid te verminderen
- alarmclassificatie om alarmen te sorteren in schroot- en niet-schrootcategorieën voor een betere controle
- minimale hinderlijke alarmen dankzij geavanceerde signaalscreening en patroonherkenning
- systeemgevoeligheidsanalyse en automatische correctie om signaalverlies te minimaliseren zonder dat er radioactieve bronnen nodig zijn om de systeemprestaties te testen
- 15-inch kleurenaanraakscherm voor eenvoudige gebruikersinterface
- lokale printer voor alarmafdruk
- GPS-verbinding voor nauwkeurige locatie en timing
- directe verbinding met het fabrieksnetwerk waardoor RSO-overzicht van alle alarmen op alle systemen mogelijk is
- realtime (1/sec) foutrapportage aan de RSI-service via internet voor snelle ondersteuning en systeemoverzicht
- 48V-werking om spanningsverlies op lange kabels te minimaliseren

- modulair systeemontwerp voor eenvoudige service ter plaatse door lokaal personeel voor “onmiddellijke” serviceondersteuning
- 24/7 technische ondersteuning voor snelle responsieve ondersteuning van technische mensen indien nodig

RS-300 Radiation Portal Monitoring Systems (Radiation Solutions)



Het RS-300-systeem is een op 3PMT gebaseerd super-Coincidence volledig digitaal systeem, speciaal ontworpen voor de moeilijke bedrijfsomstandigheden van veel staal- en schrootverwerkingsfabrieken. Dit systeem maakt gebruik van detectoren met een gemiddeld volume voor een goede voertuigdekking. Om eenvoudige vervanging en upgrades mogelijk te maken, zijn de detectoren qua formaat identiek aan de meest gebruikte detectoren die tegenwoordig in het veld worden gebruikt.



Het systeem is volledig MODULAIR, zodat het eenvoudig kan worden geconfigureerd voor de lokale logistiek. Het systeem werkt onafhankelijk, maar heeft directe Ethernet-connectiviteit met fabrieksnetwerken die een volledig geïntegreerd fabrieksontwerp mogelijk maken met RSO-overzicht op alle geïnstalleerde systemen. USB/seriële connectiviteit maakt ook systeemconfiguratie mogelijk om te voldoen aan de gebruikersbehoeften voor lokale beeldschermen, lokale of netwerkprinters, schaalcomputerintegratie enz.

Kenmerken van RS-300 stralingsportaalbewakingssystemen:

- 3000 cu ins (3024 cu ins feitelijk) detectorassemblages – max. 16 detectors
- volledig digitaal systeemontwerp – geen ingewikkelde gebruikersaanpassingen
- 3 PMT-technologie voor hoge gevoeligheid + hoge ruisonderdrukking
- Gegevensbemonsteringssnelheid van 10/sec voor optimale gegevensanalyse
- geavanceerd 128-kanaals spectrometersysteem
- volledige spectrale NASVD-analyse voor hoge gevoeligheid met vrijwel nul valse alarmen
- vrijwel geen leegte- en regenalarmen dankzij geavanceerde spectrale analyse
- volledig geïntegreerde netwerken voor integratie in het fabrieksnetwerk
- quad optische sensoren met 500 Hz databemonstering voor nauwkeurige voertuigdetectie
- 12" of 15" kleurenaanraakscherm voor eenvoudige gebruikersinterface
- alarmclassificatie indien nodig om alarmen te sorteren in schroot en niet-schroot
- 48V-werking om spanningsverlies op lange kabels te minimaliseren
- automatische verbinding met het RSI-servicecentrum via internet voor snelle serviceondersteuning
- RSO-software geleverd voor alarmanalyse rechtstreeks vanuit het RSO-kantoor
- realtime (1/sec) foutrapportage aan de RSI-service via internet voor snelle ondersteuning
- automatische bewaking van de systeemgevoeligheid met automatische versterkingscorrectie
- modulair systeemontwerp voor eenvoudig onderhoud

Beschikbare modellen:

- RS-300/6000 = 2 detectorsysteem
- RS-300/9000 = 3 detectorsysteem
- RS-300/12000 = 4 detectorsysteem
- RS-300/15000 = 5 detectorsysteem

- RS-300/18000 = 6 detectorsysteem\
- RS-300/21000 = 7 detectorsysteem
- RS-300/24000 = 8 detectorsysteem

RS-400 Radiation Portal Monitoring Systems (Radiation Solutions)



Het RS-400-systeem is een op 4PMT gebaseerd super-Coincidence volledig digitaal systeem, speciaal ontworpen voor de moeilijke bedrijfsomstandigheden van veel staal- en schrootverwerkingsfabrieken. Dit systeem maakt gebruik van grootvolumedetectors voor een optimale voertuigdekking. Deze lange detectoren lijden aanzienlijk onder signaalverlies bij gebruik van conventionele technologie, daarom heeft RSI een 4PMT-technologie ontwikkeld die gebruik maakt van PMT's aan BEIDE uiteinden van de detector voor een sterk verbeterde signaalverzameling en spectrale vorm.



Het systeem is volledig MODULAIR, zodat het eenvoudig kan worden geconfigureerd voor de lokale logistiek. Het systeem werkt onafhankelijk, maar heeft directe Ethernet-connectiviteit met fabrieksnetwerken die een volledig geïntegreerd fabrieksontwerp mogelijk maken met RSO-overzicht op alle geïnstalleerde systemen. USB/seriële connectiviteit maakt ook systeemconfiguratie mogelijk om te voldoen aan de gebruikersbehoeften voor lokale beeldschermen, lokale of netwerkprinters, schaalcomputerintegratie enz.

Kenmerken van RS-400 stralingsportaalbewakingssystemen:

- 5000 cu ins (4698 cu ins feitelijk) detectorassemblages – max. 16 detectors
- volledig digitaal systeemontwerp – geen ingewikkelde gebruikersaanpassingen
- 4 PMT-technologie voor hoge gevoeligheid + hoge ruisonderdrukking op lange detectoren
- Gegevensbemonsteringssnelheid van 10/sec voor optimale gegevensanalyse
- geavanceerd 128-kanaals spectrometersysteem
- volledige spectrale NASVD-analyse voor hoge gevoeligheid met vrijwel nul valse alarmen
- vrijwel geen leegte- en regenalarmen dankzij geavanceerde spectrale analyse
- volledig geïntegreerde netwerken voor integratie in het fabrieksnetwerk
- quad optische sensoren met 500 Hz databemonstering voor nauwkeurige voertuigdetectie
- 12" of 15" kleurenaanraakscherm voor eenvoudige gebruikersinterface
- alarmclassificatie indien nodig om alarmen te sorteren in schroot en niet-schroot
- 48V-werking om spanningsverlies op lange kabels te minimaliseren
- automatische verbinding met het RSI-servicecentrum via internet voor snelle serviceondersteuning
- RSO-software geleverd voor alarmanalyse rechtstreeks vanuit het RSO-kantoor
- realtime (1/sec) foutrapportage aan de RSI-service via internet voor snelle ondersteuning
- automatische bewaking van de systeemgevoeligheid met automatische versterkingscorrectie
- modulair systeemontwerp voor eenvoudig onderhoud

Beschikbare modellen:

- RS-400/10000 = 2 detectorsysteem
- RS-400/15000 = 3 detectorsysteem
- RS-400/20000 = 4 detectorsysteem

- RS-400/25000 = 5 detectorsysteem
- RS-400/30000 = 6 detectorsysteem
- RS-400/35000 = 7 detectorsysteem
- RS-400/40000 = 8 detectorsysteem



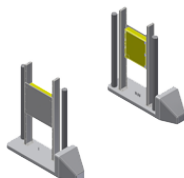
Ludlum Measurements, Inc. is een vertrouwde wereldwijde leverancier van instrumenten voor stralingsdetectie en -monitoring en biedt robuuste, nauwkeurige oplossingen voor personeelsveiligheid, milieubescherming en beveiligingsscreening. Sinds 1962 wordt hun apparatuur wereldwijd gebruikt in toepassingen variërend van kernenergie en noodhulp tot grensbewaking en monitoring van kritieke infrastructuur.

Product offering

**Model 4525 Series
Radiation Portal
Monitor**



**Model 4525-5000
Radiation Portal
Monitor - Ludlum**



**Model 4525-7000
Radiation Portal
Monitor - Ludlum**



**Model 4530 Series
Radiation Portal
Monitor**



**Model 375P-3500
Conveyor Monitor -
Ludlum**



**Model 52-8 Series
Outdoor Portal
Monitor**



Model 4525 Series Radiation Portal Monitor



All Model 4525 systems with 57 L (3500 in³) detectors now come with new 5th generation NEMA 4 enclosures.

The new enclosures are manufactured with a 14-gauge carbon steel body and a 2 mm (0.080 in.) aluminum door for increased sensitivity. Using stainless steel concealed hinges and quarter turn latches for easy accessibility, they are 70 mm (2.75 in.) slimmer than the previous generation, reducing waste and cost.

Ask about our NEMA 4X stainless steel upgrade option for increased corrosion protection!

The Model 4525 Series of Radiation Portal Monitors (RPMs) represents state-of-the-art technology for detecting low levels of radiation, such as orphan radiation sources and NORM (naturally occurring radioactive materials), at facilities including scrap yards, recycling companies, landfills, and foundries. These systems are composed of ruggedized, large plastic scintillation detectors optimally arranged to monitor items passing through. Each system can be configured with two to six large detectors, with individual detector volumes of 9.8 L (600 in³), 41 L (2500 in³), or 57 L (3500 in³).

Real-time data acquisition and analysis is performed directly at each detector system and then reported to a central PC for logging, reporting, and alarm notification. Up to four detector systems (lanes) can be networked together via Ethernet or wirelessly to a central PC so that vehicles entering from either direction can be monitored in real time. An optional remote control/annunciator panel is available to support operator awareness, alarm acknowledgement, and if necessary, backup operation in the event the central PC is unavailable.

Data from all the system sensors are acquired and checked by powerful, field-tested, and time-proven algorithms designed to check each load vigorously in a multi-dimensional and multi-layered manner before declaring any load as clean. Any abnormality is immediately indicated via both local and remote alarms. An optional camera system can capture an image of the offending vehicle and store the image with the logged data for permanent record keeping. Alarms can also be configured to automatically notify shift supervisors directly by e-mail if desired.

The system is designed for ease of use and can be customized



to accommodate a wide variety of site and application specific criteria. Intuitive menus and controls combined with pre-defined automatic event handlers ensure each situation is handled properly and consistently.

Features

- Use to Monitor Trucks, Rail Cars, Personal Vehicles, etc.
- Large, Highly Sensitive, Industrial Duty Plastic Scintillation Detectors
- Reliable Operation with Very Low False Positives
- Flexible Configurations Accommodate Up to Four Lanes, Each with Two to Six Detectors
- Real-time Central Data Logging, Reporting, and Alarm Notification
- Bi-Directional Entry
- User-Friendly Operation
- Excellent Service and 24-Hour Tech Support
- 8-hour Battery Backup in Event of Power Loss
- Modular and Upgradeable
- Variety of Options to Customize the System to Meet Your Needs
- Made in USA

Model 4525-5000 Radiation Portal Monitor - Ludlum



De onlangs opnieuw geconfigureerde Ludlum 4525-Generation IV-serie Radiation Portal Monitors (RPM's) vertegenwoordigt de modernste technologie voor het detecteren van weesstralingsbronnen en NORM. De herziene systemen kunnen worden geüpgraded, hebben lagere eigendomskosten en vertegenwoordigen een lagere initiële aankoopprijs.



De Gen IV-serie RPM-systemen zijn robuuste, grote plastic scintillatiesystemen die optimaal kunnen worden ingericht om bewegende voertuigen die het systeem binnenkomen te monitoren. Elk detectorsysteem kan worden geconfigureerd met twee tot zes grote detectoren.

Kenmerken van de stralingsportaalmonitor model 4525-5000:

- real-time centrale datalogging, alarmmelding en rapportage
- gebruiksvriendelijke bediening
- groot formaat, zeer gevoelige industriële detectoren
- uitbreidbaar en modulair systeem
- 2 detectorsystemen
- tweerichtingsingang
- registreert voertuigbeelden en camera-opnamen (optioneel)
- EJ-200 kunststof scintillator

Lees meer over de model 4525-5000 stralingsportaalmonitor op de Ludlum-website



Model 4525-7000 Radiation Portal Monitor - Ludlum

De Ludlum 4525-7000 Radiation Portal Monitor (RPM) vertegenwoordigt de modernste technologie bij het detecteren van weesstralingsbronnen. Ludlum heeft wereldwijd ruim 800 van dit soort systemen verkocht aan sloopwerven, recyclingbedrijven, stortplaatsen en gieterijen. De detectoren uit de Model 4525-serie zijn robuuste grote plastic scintillatiesystemen die optimaal kunnen worden ingericht om bewegende voertuigen die het systeem binnenkomen te monitoren.



Kenmerken van de stralingsportaalmonitor model 4525-7000:

- realtime centrale datalogging en rapportage
- CAT 5e-kabel van 76,2 m (250 ft).
- dubbele aanwezigheids-/snelheidssensoren
- extern waarschuwingspaneel
- tweerichtingsingang
- camerabeeldregistratie en dB-opslag (optioneel)
- spoorwagenmodus
- twee weerbestendige kunststof scintillatordetectoren

Lees meer over de model 4525-7000 stralingsportaalmonitor op de Ludlum-website

Model 4530 Series Radiation Portal Monitor



The Model 4530 Series of Radiation Portal Monitors (RPMs) represents state-of-the-art technology for detecting low levels of radiation, such as orphan radiation sources and NORM (naturally occurring radioactive materials), at facilities including scrap yards, recycling companies, landfills, and foundries. These systems are composed of ruggedized, large plastic scintillation detectors optimally arranged to monitor items passing through. Each system can be configured with one to six large detectors, with individual detector volumes of 39.7 L (2117 in³) or 57 L (3500 in³).

Real-time data acquisition and analysis is performed directly at each detector system and then reported to the internal PC for logging, reporting, and alarm notification. Up to four detector systems (lanes) can be networked together via Ethernet or wirelessly to a central PC so that vehicles entering from either direction can be monitored in real time. An optional remote control/annunciator panel is available to support operator awareness, alarm acknowledgement, and if necessary, backup operation in the event the internal PC is unavailable.

Data from all the system sensors are acquired and checked by powerful, field-tested, and time-proven algorithms designed to check each load vigorously in a multi-dimensional and multi-layered manner before declaring any load as clean. Any abnormality is immediately indicated via both local and remote alarms. An optional camera system can capture an image of the offending vehicle and store the image with the logged data for permanent record keeping. Alarms can also be configured to automatically notify shift supervisors directly by e-mail if desired.

The system is designed for ease of use and can be customized to accommodate a wide variety of site and application specific criteria. Intuitive menus and controls combined with pre-defined automatic event handlers ensure each situation is handled properly and consistently.

All of the main components of these systems are manufactured in-house in the USA.

Features

- Made in USA
- Monitor Trucks, Rail Cars, Personal Vehicles, etc.
- Large, Highly Sensitive, Industrial Duty Plastic Scintillation Detectors



- Reliable Operation with Very Low False Positives
- Flexible Configurations Accommodate Up to Four Lanes, Each with One to Six Detectors
- Real-time Central Data Logging, Reporting, and Alarm Notification
- Bi-Directional Entry
- User-Friendly Operation
- Excellent Factory Service and 24-Hour Tech Support
- Modular and Upgradeable
- Variety of Options to Customize the System to Meet Your Needs

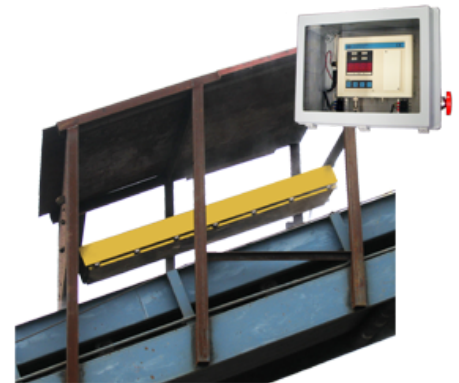
Retrofit Option

Ludlum Measurements offers the option to retrofit existing portal monitor systems with the electronics and software used in our Model 4530 Series Radiation Portal Monitors, including systems manufactured by our competitors. Retrofitting allows you to upgrade an aging system without having to purchase new detector housings and stands. Besides our own systems, Ludlum has experience retrofitting systems manufactured by Exploranium, RadComm, SAIC, Mirion/Canberra, and Thermo. Retrofits are customized to your needs, and can also include replacing the plastic scintillator detectors if necessary.

Model 375P-3500 Conveyor Monitor - Ludlum



The Model 375P-3500 Conveyor Monitor (Ludlum) is a radiation detector system to inspect materials at contamination on a conveyor.



Model 375P-3500 Conveyor Monitor features:

- detector delivers superior sensitivity
- controller can operate totally independently or connected to an ethernet network or wired for remote annunciation
- 57.4 L (3500 in²) plastic detector with 15.2 m cable
- 24-Hour battery backup
- check source (10 µCi)
- electronics housed in a NEMA 4X enclosure with external reset button
- see-through viewing window
- weathertight, lead-shielded enclosure

Read more about the Model 375P-3500 Conveyor Monitor on the [Ludlum website](#)



Model 52-8 Series Outdoor Portal Monitor

The Model 52-8 is a weather-resistant portable scintillation portal monitor used for beta-gamma radiation monitoring of vehicles, as well as monitoring of personnel. Two plastic scintillation detectors, one per side, are housed in weatherproof, dust-tight, impact-resistant cases with wheels and tow handles. Microprocessor-based electronics are housed in a third case with matching characteristics, plus a mounted On/Off toggle switch and an optional red/green strobe light. The system provides high sensitivity for detecting very low levels of radiation coming from personnel or vehicles that move through the portal.

Ease of setup, adjustable audio signals, and user-friendly LCD display that provides detector counts, background levels, and system parameters, and the ability to operate via vehicle cigarette lighter plug or batteries, keep the Model 52-8 applicable to a variety of different situations. This instrument meets the Federal Emergency Management Agency (FEMA) standard for Emergency Management Response Portal Monitoring (FEMA-REP-21).

Features

- Portable Weatherproof Monitor
- Deploys in 5 Minutes
- Vehicle or Personnel Screen Compatibility
- Audible & Visual Alert Signals
- Two Sizes: 15.7 L (960 in³) or 32.7 L (2000 in³)





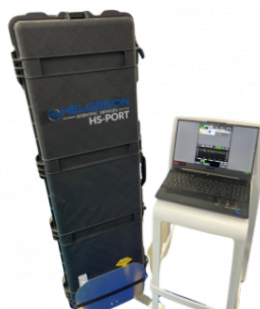
Helgeson Scientific Services (HSS) ontwerpt en produceert geavanceerde stralingsmonitorsystemen gericht op personeelsveiligheid, faciliteitenbescherming en afvalbeheer. Hun portfolio omvat lichaamsmonitoren, portaaldetectiesystemen en afvalbeheeroplossingen – elk ontwikkeld ter ondersteuning van de veilige verwerking van radiologisch materiaal in kritieke omgevingen.

Product offering

**HS-VGAM - Portal
vehicle for scrap
yards**



**HS-PORT - Portable
Gamma Portal
monitor for personnel
and vehicles**



HS-PoNaI



HS-VGAM - Portal vehicle for scrap yards



The HS-VGAM unit is an automated multitasking device, designed for the detection and measurement of gamma radiation on potentially exposed material, transported in vehicles.

It is particularly suitable for the detection of radioactive sources in loads of raw materials, scrap and waste materials.





HS-PORT – Portable Gamma Portal monitor for personnel and vehicles

The HS-PORT has been designed for the detection and measurement of gamma radiation on potentially contaminated personnel, vehicles, etc.

It has a very fast deployment (one person in 2 minutes) and can be used in several applications like emergency response, monitoring of critical facilities, monitoring of events like concerts, sport events, etc. The system is operated remotely with a mobile phone or laptop without any additional cable connection.





- Detectors:
 - NaI scintillation detector (can be customized: CsI, LaBr, CeBr, etc.)
 - Number of detectors: 1 detector (can be upgraded to 2 detectors)
 - Detector size: 4x4x16 inches (3x5x16" also available)
 - Energy range: 40 keV - 3 MeV
- Electronics:
 - Plug-in MCA with 2048 channels
 - Automatic gain stabilization
- Other features:
 - PC with Windows 11
 - Software for isotope identification and quantification
 - Spectrums displayed in real time, can be saved to be analyzed later
 - GPS
 - Hard disk memory up to 125 Gb
 - Remote connection with tablets, PCs, etc.
 - Dimensions: 730 x 160 x 170 mm approx.
 - Weight: 25 kg
 - Power: 220 - 115 V , 10 - 36 VDC
 - Battery bank to work autonomously
 - IP67

HS-PoNaI is a fantastic solution for a quick and efficient **in-situ isotope identification** in different applications. It is a strong and customizable equipment with a very simple and intuitive operation thanks to its automatic isotope identification and quantification software. It is equipped with a 4 liters NaI detector (4x4x16"), and all electronics are installed inside a PeliCase providing IP67 protection. Communication can be done remotely via tablet or another device.



MOBIELE STRALINGSDETECTIESYST EMEN





Polimaster is wereldwijd toonaangevend in oplossingen voor stralingsdetectie en -monitoring en biedt een uitgebreid scala aan instrumenten die zijn ontworpen om ioniserende straling in diverse omgevingen te detecteren, identificeren en meten. Hun productassortiment omvat handmonitoren, persoonlijke elektronische dosimeters, draagbare isotopeidentifiers, portaalmonitoren en mobiele detectiesystemen, allemaal ontworpen om te voldoen aan de strenge eisen van beveiliging, noodhulp en industriële toepassingen.

Product offering

**PoliGate™ Mobile
MDS**



**PoliPack® G-S
Backpack Radiation
Detector**



**PoliPack® GN
Backpack Radiation
Detector**



**PoliPack® G
Backpack Radiation
Detector**



**PoliPack® GN-S
Backpack Radiation
Detector**



PoliGate™ Mobile MDS



Vehicle-based radiation portal monitors for detection on the go.

The **PoliGate™ Mobile MDS** is a complex solution designed for the **automatic scanning of fixed or mobile objects** to detect illicit trafficking of radioactive substances and materials. The vehicle-integrated system is highly customizable and available in numerous modifications to cater to the specific requirements of the customers. The vehicle model used for the MDS can differ depending on the needs of the user.

When it comes to securing borders, emergency response, and any situation where rapid response is vital, the PoliGate™ Mobile is a game-changer. Its mobile design allows for **quick deployment at strategic locations**, enabling an efficient inspection (detection, localization, measurement, and identification) of vehicles, cargo, and pedestrians for potential radioactive threats in any place.



PoliPack® G-S Backpack Radiation Detector



Spectroscopic Gamma-only Backpack Radiation Detector.

The **PoliPack® G-S** is a **gamma-only** Backpack-Based Radiation Detection System (BRD) equipped with spectroscopic gamma detectors for identifying radionuclides. It is carried in a compact backpack and controlled remotely via the wired control unit or a smartphone with the free Polismart® iOS and Android App.

The **PoliPack® BRDs** are rugged, lightweight, and fast-deploying devices that provide prompt and reliable detection, location, and identification of multiple and masked isotopes. The device is ideal for undercover radiation surveys in crowded areas, addressing the problems of orphaned and maliciously introduced sources and ensuring security before and during mass events. Radionuclides libraries are uploaded in the BRD and can be customized by users.



PoliPack® GN Backpack Radiation Detector



Gamma-Neutron Backpack Radiation Detector.

The **PoliPack® GN** is a **gamma-neutron** Backpack-Based Radiation Detection System (BRD) equipped with a highly sensitive portable radiation monitor carried in a compact backpack and controlled remotely via the wired control unit or a smartphone with the free Polismart® iOS and Android App.

The **PoliPack® BRDs** are rugged, lightweight, and fast deployable devices that provide prompt and reliable detection, location, and identification of multiple and masked isotopes. The device is ideal for undercover radiation surveys in crowded areas, addressing the problems of orphaned and maliciously introduced sources and ensuring security before and during mass events.



PoliPack® G Backpack Radiation Detector



Gamma-only Backpack Radiation Detector.

The **PoliPack® G** is a **gamma-only** Backpack-Based Radiation Detection System (BRD) equipped with a highly sensitive portable radiation monitor carried in a compact backpack and controlled remotely via the wired control unit or a smartphone with the free Polismart® iOS and Android App.

The **PoliPack® BRDs** are rugged, lightweight, and fast-deploying devices that provide prompt and reliable detection, location, and identification of multiple and masked isotopes. The device is ideal for undercover radiation surveys in crowded areas, addressing the problems of orphaned and maliciously introduced sources and ensuring security before and during mass events.



PoliPack® GN-S Backpack Radiation Detector



Spectroscopic Gamma-Neutron Backpack Radiation Detector.

The **PoliPack® GN-S** is a **gamma-neutron** Backpack-Based Radiation Detection System (BRD) equipped with **spectroscopic** gamma detectors for identifying radionuclides. It is carried in a compact backpack and controlled remotely via the wired control unit or a smartphone with the free Polismart® iOS and Android App.

The **PoliPack® BRDs** are rugged, lightweight, and fast deployable devices that provide prompt and reliable detection, location, and identification of multiple and masked isotopes. The device is ideal for undercover radiation surveys in crowded areas, addressing the problems of orphaned and maliciously introduced sources and ensuring security before and during mass events. Radionuclides libraries are uploaded in the BRD and can be customized by users.



STRALINGSBESCHERMING SUITRUSTING





RADsafe persoonlijke stralingsbeschermende kleding zet nieuwe normen in innovatieve en betrouwbare bescherming voor zorgprofessionals wereldwijd. RADsafe-schorten zijn vervaardigd volgens uitzonderlijk hoge normen en verkrijgbaar in diverse ergonomische en genderspecifieke ontwerpen voor maximale flexibiliteit en comfort. Dit betekent dat RADsafe-schorten, indien nodig, vaker en langer veilig en comfortabel gedragen kunnen worden.

Product offering

Comfortwear Aprons



Urology Aprons



Surgical Drop-Away Aprons



Maternity Aprons



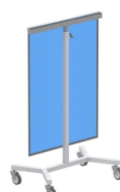
RadShield - Apex Series



RadShield - Zenith Series



RadShield - Zenith - X Base



RadShield - Zenith - H Base



Comfortwear Aprons



The Comfortwear Apron is a flexible fit. Please refer to our apron size measurements to choose your size preference for the required use.

At RadSafe we strive to make our protective aprons simple to apply and remove. Fitting and storage time are critical in the medical industry. The Comfortwear Apron's application time from removing the apron off the storage rack to placing it on the wearer for use is approximately 25 seconds. Additionally, the time from removing the apron off the wearer after use to storing the garment on the storage rack is approximately 20 seconds.

The Comfortwear Apron is ideal for use during short periods of time, particularly for radiology and minor surgeries in addition to nurses and vets.



Urology Aprons



The apron's two vital protective contact points are the shoulders and waist. The Urology Apron is a flexible fit. Please refer to our apron size measurements to choose your size preference for the required use.

At RadSafe we strive to make our protective aprons simple to apply and remove. Fitting and storage time are critical in the medical industry. The application time from removing the apron off the storage rack to placing it on the wearer for use is approximately 25 seconds. Additionally, the time from removing the apron off the wearer after use to storing the garment on the storage rack is approximately 20 seconds.

The Urology Apron is typically worn for urological surgeries or procedures.



Surgical Drop-Away Aprons



The apron's two vital protective contact points are the shoulders and waist. The Surgical Drop-Away Apron is a flexible fit. Please refer to our apron size measurements to choose your size preference for the required use.

At RadSafe we strive to make our protective aprons simple to apply and remove. Fitting and storage time are critical in the medical industry. The application time from removing the apron off the storage rack to placing it on the wearer for use is approximately 25 seconds. Additionally, the time from removing the apron off the wearer after use to storing the garment on the storage rack is approximately 20 seconds.

The Surgical Drop-Away Apron is typically worn for short periods of time. Most suitably worn for radiology and minor surgeries in addition to vets and more.



Maternity Aprons



The apron's three vital protective contact points are the shoulders, underarm and waist. The Maternity Apron is a flexible fit. Please refer to our apron size measurements to choose your size preference for the required use.

At RadSafe we strive to make our protective aprons simple to apply and remove. Fitting and storage time are critical in the medical industry. The application time from removing the apron off the storage rack to placing it on the wearer for use is approximately 50 seconds. Additionally, the time from removing the apron off the wearer after use to storing the garment on the storage rack is approximately 35 seconds.

The Maternity Apron is used during long or short periods of time for procedures in operating theatres, catheter laboratories and more.



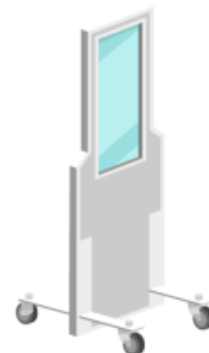
RadShield – Apex Series



Mobile radiation protective screens with lead glass viewing panel. Suitable for any environment. Lead equivalence is 2.1 Pb. Height 1990 mm, Depth 650mm.

Screen Types:

- **Type 1:** Width 600mm (310×1000 window) (Narrows to 450mm at top)
- **Type 2:** Width 600mm (460×1000 window)
- **Type 3:** Width 1200mm (1000×500 window)
- **Type 4:** Width 1200mm (1000×1000 window)
- **Type 5:** Width 600mm (no window)
- **Type 6:** Width 1200mm (no window)



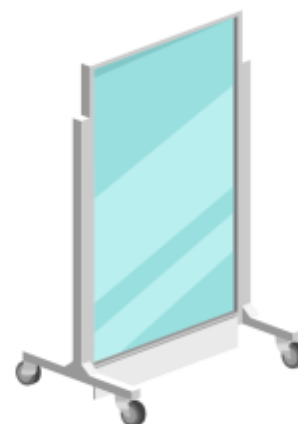
RadShield - Zenith Series



Powder coated steel frames, precision TIG welded for years of trouble-free service completely enclosing the leaded glass panel for increased durability and safety. Includes extra support around base unlike competing models.

Screen Types:

- **Type 1:** 1100mm x 1975mm leadlined Radiation Screen
Viewing panel 1000mm x 1800mm.
- **Type 2:** 1100mm x 1975mm leadlined Radiation Screen
Viewing panel 1000 x 1330mm.
- **Type 3:** 1100mm x 1975mm leadlined Radiation Screen
Viewing panel 1000 x 1000mm.
- **Type 4:** 1300mm x 1975mm leadlined Radiation Screen
Viewing panel 1200 x 1000mm.
- **Type 5:** 760mm x 1775mm leadlined Radiation Screen
Viewing panel 660 x 1000mm.



RadShield - Zenith - X Base



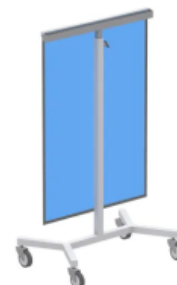
Height adjustable mobile personal shield, featuring a RadSafe protective panel supported by a powder coated steel frame with precision TIG welds and medical grade wheels for years of trouble-free service.

Unique shield design for todays users, featuring:

- Stable X Base giving increased usability and handling
- Centralised height adjustment allowing no obstructions above the shield
- Middle mount support allowing ease of left hand, right hand or both
- Medical grade castors (wheels) as standard
- RadSafe lead protective panel as standard

Specifications:

- Shield Size: 1200x500mm
- Shield Protection: 0.5mmPb RadSafe Non-Lead Core
- Frame Width: 840mm at user side, 240mm at patient side
- Frame Depth: 520mm
- Frame Height: 1350mm at lowest, 2000mm at highest
- Height Adjust: Manual pull pin, release, lift and lock



RadShield - Zenith - H Base



Height adjustable mobile personal shield, featuring a RadSafe protective panel supported by a powder coated steel frame with precision TIG welds and medical grade wheels for years of trouble-free service.

Unique shield design for todays users, featuring:

- Angled H Base improving usability and handling
- Centralised height adjustment allowing no obstructions above the shield
- Middle mount support allowing ease of left hand, right hand or both
- Medical grade castors (wheels) as standard
- RadSafe lead protective panel as standard

Specifications:

- Shield Size: 1200x500mm
- Shield Protection: 0.5mmPb RadSafe Non-Lead Core
- Frame Width: 840mm at user side, 240mm at patient side
- Frame Depth: 520mm
- Frame Height: 1350mm at lowest, 2000mm at highest
- Height Adjust: Manual pull pin, release, lift and lock



BRONNEN





Spectrum Techniques Spectrum Techniques is een toonaangevende leverancier van oplossingen voor stralingsdetectie en -meting, gespecialiseerd in laboratoriumapparatuur en radioactieve bronnen. Hun aanbod omvat een reeks instrumenten en detectoren die zijn ontworpen ter ondersteuning van educatieve, onderzoeks- en industriële toepassingen.

Product offering

**RSS3 Source Set -
Spectrum Techniques**



**RSS-5 Source Set -
Spectrum Techniques**



**RSS-8 Source Set -
Spectrum Techniques**



**Laminated Sources -
Spectrum Techniques**



**Disc Sources -
Spectrum Techniques**



**Isotope Generator -
Spectrum Techniques**



**Tube Sources -
Spectrum Techniques**



**Needle Sources -
Spectrum Techniques**



RSS3 Source Set - Spectrum Techniques



The RSS-3 contains 1 each Po-210, Sr-90 and Co-60 emitting a range of alpha, beta and gamma radiation's. This set is ideal for demonstration and introductory nuclear labs covering basic characteristics of radiation. The Co-60 is 1.0 uCi and the Po-210 and Sr-90 are 0.1 uCi activity.

Contact one of our product specialists.



RSS-5 Source Set - Spectrum Techniques



Containing 1 each Cs-137, Co-60, Sr-90, Tl-204 and Po-210, the RSS-5 provides a wide of alpha, beta and gamma emissions making it a popular choice for nuclear science instruction. The set contains two beta emitters, two beta/gamma emitters and one alpha source for in-depth studies of radiation. The Cs-137 is 5 uCi, the Po-210 and Sr-90 are 0.1 uCi activity and the Co-60 and Tl-204 are both 1 uCi.

Contact one of our product specialists.



RSS-8 Source Set - Spectrum Techniques



Designed for gamma spectroscopy, the RSS-8 contains eight different gamma emitting isotopes covering the entire energy range from 32 to 1333 keV. Also included in the set is a mixed source of Cs-137 and Zn-65 which students may use to identify an “unknown” isotope. The set consists of Ba-133, Cd-109, Co-57, Co-60, Cs-137, Mn-54, Na-22 and Cs/Zn. Source activities are all 1 uCi, except the Cs/Zn source, which is 0.5 uCi Cs and 1 uCi Zn.

Contact one of our product specialists.





Laminate credit card sources are designed to offer a convenient alternative packaging – easy to handle and store – in various industries including, but not limited to:

- **Laboratories:** They are ideal for performing functional checks on gamma counters or spectrometers.
- **Radiation Protection:** Laminate credit card sources can be used for functional checks and periodic verifications of radiation protection probes and systems.
- **Training and Education:** Laminate credit card sources can be used to illustrate fundamental concepts in nuclear physics and radiation science. Students can observe and study radioactive decay, half-life, energy spectra, and interactions of radiation with matter.
- **Security:** Laminate credit card sources are also useful for functional checks and periodic verifications of portable devices used to identify radiological threats and for conducting emergency exercises.

AVAILABLE SIZES

Each credit card source is constructed using 7.5 mil, heavy-weight card stock and is available in one standard size:

- 3.75 x 2.25 inches (95.3 mm x 57.2 mm)

The source material deposit will be 2-3 mm in diameter located at the center of the radiation trefoil.

CALIBRATION OPTIONS

Credit card sources are not available for calibration. The maximum deviation of the delivered activity from the nominal values listed is $\pm 20\%$.

REGULATORY COMPLIANCE

Activities provided will not exceed the U.S. NRC Exempt Quantity limit.



Plastic laminates provide a convenient alternative packaging being easy to handle and store. The standard laminates have a transmission window of 0.005" and produce minimum attenuation for photons and higher energy beta particles.

Two sizes are available, 3.75"x2.25", and a 1" diameter circular disc. Other sizes are available; just let us know and we will send you a quote. Low energy x-ray, beta and alpha sources can be produced with a 80 $\mu\text{g}/\text{cm}^2$ aluminized Mylar window offering excellent transmission for Fe-55, C-14 and Po-210.

Contact one of our product specialists.

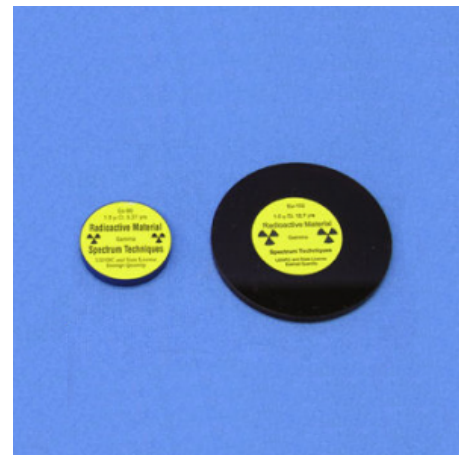
Disc Sources - Spectrum Techniques



Disc sources are available in 1" and 2" diameter plastic disc with the 1" being standard and other sizes on special order.

The Po-210 alpha source is of open window construction with the source material bonded to the surface of a silver foil mounted in the recess of the plastic disc. This design yields excellent emission of alpha particles without window losses.

Contact one of our product specialists.



Isotope Generator - Spectrum Techniques



This Cs-137/Ba-137m Isotope Generator is used to conduct experiment in schools and universities to demonstrate the properties of radioactive decay. Based on the original Union Carbide patented design, it offers exceptional performance combined with ease of use and safe operation.

Contact one of our product specialists.

If you prefer to continue your search for additional information, try this [link](#).



Tube Sources – Spectrum Techniques



We now offer a selection of exempt quantity gamma sources encapsulated in standard size test tubes or rods for use with well type radiation detectors. These sources are exempt sources and of nominal activity. The isotope is deposited as a point source in the bottom of the tube and is then sealed with epoxy.

Contact one of our product specialists.



Needle Sources - Spectrum Techniques



Needle sources are used to generate a point source of radiation inside cloud chambers for demonstrating alpha and beta radiation tracks. Three different types of isotopes are offered, a pure alpha emitter, a pure beta emitter and a combined alpha /beta emitter.

The sources are constructed by depositing a small, license exempt quantity of radioactive isotope onto the eye of a standard sewing needle which is mounted on a test tube stopper for insertion into the cloud chamber. The needle and stopper are placed into a test tube for protection during shipping and storage.

Contact one of our product specialists.



AFVAL- EN RECYCLINGBEHEER





Ludlum Measurements, Inc. is een vertrouwde wereldwijde leverancier van instrumenten voor stralingsdetectie en -monitoring en biedt robuuste, nauwkeurige oplossingen voor personeelsveiligheid, milieubescherming en beveiligingsscreening. Sinds 1962 wordt hun apparatuur wereldwijd gebruikt in toepassingen variërend van kernenergie en noodhulp tot grensbewaking en monitoring van kritieke infrastructuur.

Product offering

HLM-6GP Laundry Monitor



Model 375-600 Digital Area Monitor for Small Areas



Model 2100-1 Sample Counter



Model 329-32 Laundry Contamination Monitor



Model 2100 Conveyorized Sample Counter



Model 375P-3500 Conveyor Monitor



Model 375P-1000 Outdoor Monitoring System



Model 375P-2000 Outdoor Monitoring System



HLM-22, HLM-3G Laundry Monitor





Model 375-600 Digital Area Monitor for Small Areas



Model 2100-1 Sample Counter



The Model 2100-1 manually operated sample counting system processes sample steel slugs to determine whether any radioactive impurities exist. The gamma radiation counting system is a table-mounted, fully integrated design that includes a gamma detector, sample tray, and controller.

The counting electronics incorporates two channels to distinguish between low and high energy gamma isotopes. All parameters, such as alarm point and count time are user-adjustable from the front panel LCD touch screen via a simple menu selection.

Measurement results for each sample are displayed on the backlit LCD. An Ethernet port reports all results and system status in real time for remote data logging and alarm annunciation. Visual and audible alarms are annunciated via the system's LCD and rear panel mounted buzzer respectively. A built-in relay provides a method for driving an external horn/strobe (available as an option).

One rear panel mounted USB port enables connection to either a keyboard or barcode reader device for the purpose of entering sample IDs.

Features

- High Sensitivity Gamma Detector
- Separate High & Low Gamma Energy Sampling
- User-Adjustable Parameters
- Color LCD Touch Screen
- Ethernet Connectivity
- Remote Alarm Output
- USB Ports for ID Input Devices





Model 2100 Conveyorized Sample Counter



The Model 2100 automated sample counting system processes sample steel slugs to determine whether any radioactive impurities exist. The gamma radiation counting system is a table-mounted, fully integrated design that includes a gamma detector, sample conveyor, and controller to facilitate automated processing.

Once the sample has been positioned on the conveyor, an infrared sensor automatically initiates conveyance of the sample into the lead shielded detector where it is counted for a predetermined time. Once the count is completed, the conveyor again advances until the sample drops into a discard container.

The counting electronics incorporates two channels to distinguish between low and high energy gamma isotopes. All parameters, such as alarm point and count time are user-adjustable from the front panel LCD touch screen via a simple menu selection.

Measurement results for each sample are displayed on the backlit LCD. An Ethernet port reports all results and system status in real time for remote data logging and alarm annunciation. Visual and audible alarms are annunciated via the system's LCD and rear panel mounted buzzer respectively. A built-in relay provides a method for driving an external horn/strobe (available as an option).

One rear panel mounted USB port enables connection to either a keyboard or barcode reader device for the purpose of entering sample IDs.













Helgeson Scientific Services (HSS) ontwerpt en produceert geavanceerde stralingsmonitorsystemen gericht op personeelsveiligheid, faciliteitenbescherming en afvalbeheer. Hun portfolio omvat lichaamsmonitoren, portaaldetectiesystemen en afvalbeheeroplossingen – elk ontwikkeld ter ondersteuning van de veilige verwerking van radiologisch materiaal in kritieke omgevingen.

Product offering

HS-DRUM - Waste characterization system for drums



HS-FRM - Free release monitor for drums, containers and big bags



HS-OTM - Object and tool monitors for objects monitoring



Complete storage and treatment plant for NORM wastes



Descaling system for NORM waste



Soil segregation unit



HS-DRUM - Waste characterization system for drums



HS-FRM - Free release monitor for drums, containers and big bags



HS-OTM - Object and tool monitors for objects monitoring



Complete storage and treatment plant for NORM wastes









SDEC France is een gespecialiseerde fabrikant van milieumonitoring en laboratoriumapparatuur en biedt complete oplossingen voor afval- en recyclingbeheer, milieumonitoring en laboratoriumtoepassingen. Met meer dan 30 jaar ervaring ontwerpt en produceert het bedrijf hoogwaardige instrumenten ter ondersteuning van professionals in milieuwetenschappen, landbouwkunde en radiologische veiligheid.

Product offering

Isokinetic Sampling Probes - SDEC



Carbon 14 Sampler with 2 Vials - SDEC



Carbon 14 Sampler with 4 Vials - SDEC



Tritium Sampler with 2 Vials - SDEC





De Isokinetic Sampling Probes (SDEC) zijn erkend in de nucleaire industrie en aangepast voor alle soorten bemonstering op één punt of op meerdere punten.



Kenmerken van isokinetische bemonsteringssondes:

- kwaliteit en duurzaamheid
- hoog afwerkingsniveau
- aangepaste vervaardiging
- de beste prijs

Lees meer over de Isokinetic Sampling Probes op de SDEC-website

Carbon 14 Sampler with 2 Vials - SDEC



De Carbon 14 Sampler met 2 Vials (SDEC) is ontworpen om CARBON-gas (CO₂ of CO) op te vangen. Het kan worden uitgerust met een koelsysteem dat alle monsterverlies als gevolg van verdamping in de zuigflessen voorkomt.

Carbon 14 Sampler met 2 flesjes kenmerken:

- in overeenstemming met de nf m60-812-1 norm
- uitstekende vangefficiëntie (bijna 99%)
- koelsysteem om de bemonsteringslengte te vergroten (optie)
- goede prijs
- constante evolutie van het product
- makkelijk te gebruiken
- aansluitbaar op alle bemonsteringslijnen

Lees meer over de Carbon 14 Sampler met 2 Vials op de website van SDEC



Carbon 14 Sampler with 4 Vials - SDEC



De Carbon 14 Sampler met 4 Vials (SDEC) brengt originele oplossingen voor de exploitatie van bemonsteringssystemen voor koolstofgas en koolstofwater. Deze monsternemer wordt voornamelijk gebruikt voor de detectie van schoorsteenafval en de ontgassing van koolstofafval.



Carbon 14 Sampler met 4 flesjes kenmerken:

- uitstekende vangefficiëntie (bijna 99%)
- koelsysteem om de bemonsteringslengte te vergroten (optie)
- goede prijs
- constante evolutie van het product
- makkelijk te gebruiken
- aansluitbaar op alle bemonsteringslijnen
- in overeenstemming met de NF M60-812-1 norm

Lees meer over de Carbon 14 Sampler met 4 Vials op de SDEC-website

Tritium Sampler with 2 Vials - SDEC



De Tritium Sampler met 2 Vials (SDEC) biedt originele oplossingen voor de werking van opvangsystemen voor tritiumgas en getritieerd water. Dit inzamelsysteem wordt voornamelijk gebruikt voor de detectie van schoorsteenafval en het ontgassen van tritiumafval.



Tritium-monsternemer met 2 flessen Kenmerken:

- goede trapectefficiëntie
- koelsysteem om de bemonsteringslengte te vergroten (optie)
- goede prijs
- constante evolutie van het product
- zeer robuust
- makkelijk te gebruiken
- kan op alle bemonsteringslijnen worden aangesloten

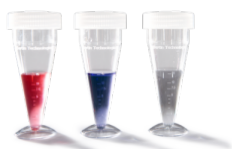
Lees meer over de Tritium Sampler met 2 Vials op de website van SDEC



Bertin Instruments is een wereldwijde leverancier van geavanceerde oplossingen voor stralingsdetectie en milieumonitoring, gespecialiseerd in draagbare monitoren, persoonlijke elektronische dosimeters, milieumonitoringsystemen en technologieën voor afval- en recyclingbeheer. Hun instrumenten zijn ontworpen om te voldoen aan de strenge eisen van nucleaire installaties, noodhulpdiensten en milieuagentschappen.

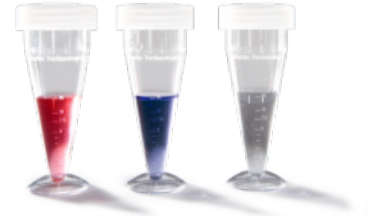
Product offering

Coriolis Consumables - Bertin Instruments





Coriolis-verbruiksartikelen maken deel uit van de cycloontechnologie: de scheiding van de in de lucht zwevende deeltjes van de luchtstroom is te danken aan het luchtdebiet, de luchtinlaatgeometrie, het ontwerp van de kegels en de verzamelvloeistof (oppervlakreactieve stof in lage concentratie).



Introductievideo

Verbruiksartikelen

- kegels & doppen: De kegels en doppen zijn speciaal ontworpen voor gebruik met de Coriolis μ
- vloeistofdoses verzamelen
- LTM-verbruiksartikelen: opvangvloeistof in fles en slangenset
- luchtinlaat: afhankelijk van je onderzoek kun je de luchtinlaat aanpassen
- standaard luchtinlaat: luchtinlaat compatibel met alle Coriolis voor klassieke samplin
- LTM-luchtinlaat: speciaal voor langdurige monitoring (alleen compatibel met het LTM-platform)
- 25 mm aansluiting LTM: ontworpen om een slangbevestiging voor te stellen (testkamer, besloten ruimte ...)

Voordelen Coriolis-verbruiksartikelen

- speciale kegels voor een zeer efficiënte verzameling
- adapter voor aansluiting op elke connector met een diameter van 25 mm
- eenvoudig in te stellen met een gekalibreerde dosis van 15 ml opvangvloeistof
- vloeistofverzameling compatibel met elk stroomafwaarts experiment
- kegels steriel en niet-steriel verkrijgbaar

Neem dan contact op met onze productspecialist.