# GEBIEDSMONITOREN

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# Partner SE International

S.E. International, Inc. is a trusted U.S.-based manufacturer of radiation detection instruments under the Radiation Alert® brand. Their product range includes area monitors, handheld survey meters, and personal electronic dosimeters—each designed to deliver accurate, real-time radiation monitoring across a wide range of applications.

## Product offering

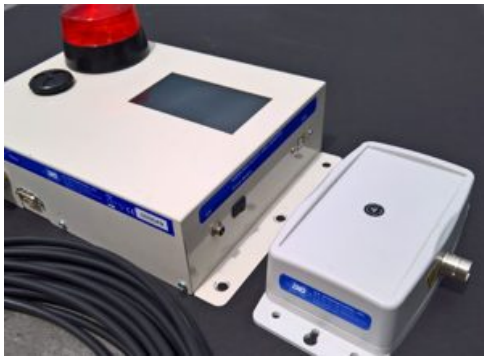| AM-2×2 Radiation Area Monitor | AM-71313 Radiation Area Monitor | AM-7128 Radiation Area Monitor | AM-1X1 Radiation Area Monitor |
|---|---|---|---|
|  |  |  |  |

**Radiation Detection › Area Monitors**

# AM-2×2 Radiation Area Monitor

The Radiation Alert® AM-2X2 is a state-of-the-art area monitor designed for ease of use and dependable performance. Featuring a smart touch interface, LED display, and external scintillation detector, it's ideal for room, portal, and source monitoring in medical, research, and industrial environments. With built-in alerts, remote monitoring software, and rugged housing options, the AM-2X2 is your all-in-one solution for radiation safety.

## Overview:

The Radiation Alert® Area Monitor is one of the most user friendly, all inclusive, state of the art radiation area monitors available. The easy to use interface is an intelligent resistive touch screen display featuring a large five digit LED readout.

## Features:

The AM-2X2 comes with an external Sodium Iodide Scintillation Detector. Cesium Iodide probes available. Rugged, wall mount enclosure options are available for high traffic area. Monitor every Radiation Alert® Area Monitor on your network with the free software. Includes user selectable warning indicators for low and high radiation alarm levels,and detector failure. Setup email and text alerts to receive alarms while on the go. All the settings are stored internally, even when power is disconnected. All units come with a Certificate of Conformance. NIST Source calibrations available upon request.

## Applications & Uses:

Room monitoring for Hospitals, X-Ray machines, Accelerators, Laboratories, etc. Portal monitoring, such as doors and walkways, Source monitoring, Alarms in the presence of radiation or the absence of sources

**Radiation Detection › Area Monitors**

# AM-71313 Radiation Area Monitor

A cutting-edge, user-friendly radiation area monitor featuring a smart touch screen with large LED readout. Choose between internal or external detectors, and monitor your entire network with free included software. Set custom alarms, receive mobile alerts, and rely on secure internal settings storage. Ideal for hospitals, labs, accelerators, and controlled access points. Includes Certificate of Conformance; NIST calibration available on request.

## Overview:

The Radiation Alert® Area Monitor is one of the most user friendly, all inclusive, state of the art radiation area monitors available. The easy to use interface is an intelligent resistive touch screen display featuring a large five digit LED readout.
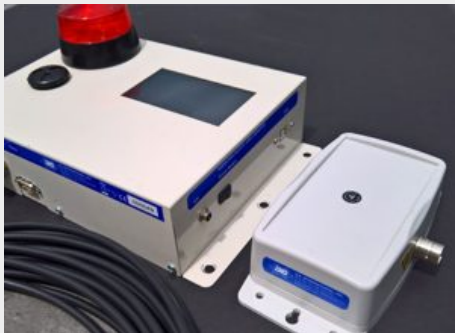
## Features:

It comes with either an internal or external detector and [free software](#) for monitoring every Radiation Alert® Area Monitor on your network. Includes user selectable warning indicators for low and high radiation alarm levels, and detector failure. Setup email and text alerts to receive alarms while on the go. All the settings are stored internally, even when power is disconnected. All units come with a Certificate of Conformance. NIST Source calibrations available upon request.

Internal or External Probe Options Available.

## Applications & Uses:

Room monitoring for Hospitals, X-Ray machines, Accelerators, Laboratories, etc. Portal monitoring, such as doors and walkways

**Radiation Detection › Area Monitors**

# AM-7128 Radiation Area Monitor

The Radiation Alert® Area Monitor is one of the most user friendly, all inclusive, state of the art radiation area monitors available. The easy to use interface is an intelligent resistive touch screen display featuring a large five digit LED readout.

## Features:

The product comes with either an internal or external detector and free software for monitoring every Radiation Alert® Area Monitor on your network. Includes user selectable warning indicators for low and high radiation alarm levels, and detector failure. Setup email and text alerts to receive alarms while on the go. All the settings are stored internally, even when power is disconnected. All units come with a Certificate of Conformance. NIST Source calibrations available upon request.
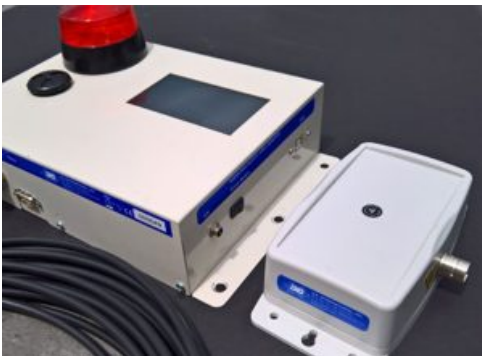
Internal or External Probe Options Available

## Applications & Uses:

Room monitoring for Hospitals, X-Ray machines, Accelerators, Laboratories, etc. Portal monitoring, such as doors and walkways

**Radiation Detection › Area Monitors**

# AM-1X1 Radiation Area Monitor

The Radiation Alert® Area Monitor is one of the most user friendly, all inclusive, state of the art radiation area monitors available. The easy to use interface is an intelligent resistive touch screen display featuring a large five digit LED readout.

## Features:

The AM1X1 comes with either an internal or external Sodium Iodide Scintillation Detector. Cesium Iodide probes available. Rugged, wall mount enclosure options are available for high traffic areas. Monitor every Radiation Alert® Area Monitor on your network with the free software. Includes user selectable warning indicators for low and high radiation alarm levels, and detector failure. Setup email and text alerts to receive alarms while on the go. All the settings are stored internally, even when power is disconnected. All units come with a Certificate of Conformance. NIST Source calibrations available upon request.

Internal or External Probe Options Available.

## Applications & Uses:

Room monitoring for Hospitals, X-Ray machines, Accelerators, Laboratories, etc. Portal monitoring, such as doors and walkways, Source monitoring, Alarms in the presence of radiation or the absence of sources

# Partner Ludlum Measurements Inc.

Ludlum Measurements, Inc. is a trusted global provider of radiation detection and monitoring instruments, offering rugged, accurate solutions for personnel safety, environmental protection, and security screening. Since 1962, their equipment has been used worldwide in applications ranging from nuclear power and emergency response to border protection and critical infrastructure monitoring.

## Product offering

| | | | |
|---|---|---|---|
| **Model 375 Area Monitor Controller** | **Model 375/1 Digital Area Monitor** | **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**
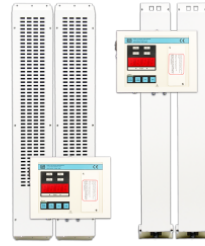


Detectors not shown to scale to electronics.

**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**

**Radiation Detection › Area Monitors**

# Model 375 Area Monitor Controller

The Model 375 is a versatile, compact, and very affordable digital electronic controller designed for monitoring radiation in areas. Its simple design accommodates many different detectors suiting a wide variety of applications, and is equipped with a local readout and alarms. These versatile units may also be connected to an optional auxiliary indicator/annunciators for alerting personnel at remote locations.

## Features:

- Affordable Digital Controller
- Adapts to a Wide Variety of Detectors
- Programmable Alarms and Units of Measure
- Networkable (Requires Ethernet or Webpage Interface Option)
- Battery Backup

## Overview:

The Model 375 is a digital area monitor controller for radiation measurement or detection. Its simple design accommodates many different detectors, suiting a wide variety of applications, and is equipped with a large digital LED display and alarms. This versatile instrument may also be connected to optional auxiliary indicators/annunciators for alerting personnel at remote locations. The user-friendly, digital design enhances setup and operation. This unit may also be networked to a central PC-based station where data are logged and alarms posted.

## Applications & Uses:

This affordable and flexible system can be used in many different applications, and over the years Ludlum Measurements has developed a wide array of detectors, accessories, and options that can be included in a Model 375 system configuration. These include remote indicator alarms, printers, relay outputs, weather-proof enclosures, Ethernet networking software, industrial cameras, and more. See the link in the "Options" tab for more information about the options that are available.

**Radiation Detection › Area Monitors**

# Model 375/1 Digital Area Monitor

The model 375/1 digital area monitor is designed for visibility and ease of use. The monitor has an internally housed 18 mm CsI scintillator with a sensitivity of approximately 120 cpm/R/hr.

The monitor has a wall-mount chassis and a four-digit LED display that you can read from 9 meters (20 feet) away.

The indicators warns with an alarm when it detects low radiation (with yellow), high radiation (with red), instrument failure (also red) or when it has a low battery (with yellow).

## Features:

- Affordable Area Monitor
- Range: 0.1 to 9999 µR/hr
- Compact, Integrated Design
- Low Background Sensitivity
- Audio & Visual Alarms
- Networkable (Requires Ethernet or Webpage Interface Option)

## Overview:

The Model 375/1 Digital Wall-Mount Area Monitor is designed for visibility and ease of use. This monitor incorporates an internally housed 18 mm CsI scintillator with a sensitivity of approximately 120 cpm per µR/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 that provide access to adjusting 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 analogue output is provided.

**Radiation Detection › Area Monitors**

# 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 μSv/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
- 1μSv/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 μSv/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.

**Radiation Detection** › **Area Monitors**

# 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 µSv/hr (1 to 2000 µR/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.)

**Radiation Detection › Area Monitors**

# 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 µSv/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 µSv/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.

**Radiation Detection › Area Monitors**

# 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.

**Radiation Detection › Area Monitors**

# 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.

**Radiation Detection › Area Monitors**
# 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.

**Radiation Detection › Area Monitors**

# 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.

**Radiation Detection › Area Monitors**

# 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 Lumic 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.

**Radiation Detection › Area Monitors**

# 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.

**Radiation Detection › Area Monitors**

# Model 375P-1000



Detectors not shown to scale to electronics.

## 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 cm$^3$ (480 in$^3$) 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.

**Radiation Detection › Area Monitors**
# 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)
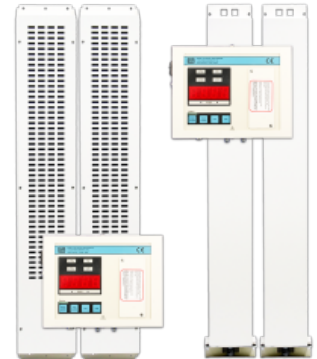- Battery Backup

## 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.

**Radiation Detection › Area Monitors**
# 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 cm$^3$ (168 in$^3$) 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.

**Radiation Detection › Area Monitors**

# 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.

**Radiation Detection › Area Monitors**

# 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

**Radiation Detection** › **Area Monitors**

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

## Features:

- 594 cm$^2$ or 821 cm$^2$ 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.

**Radiation Detection › Area Monitors**

# 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 cm$^3$ (168 in$^3$) 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.