

Model 375-10 Gamma Area Monitor



Ludlum Measurements, Inc.

Features

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



Introduction

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 pre-programmed 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.)

Specifications

Part Number: 48-3443

INDICATED USE: radiation monitoring

DETECTOR: internal, 5.1 x 5.1 cm (2 x 2 in.) (Dia x L) sodium iodide [NaI(Tl)] scintillation detector

DISPLAY: 4-digit LED display with 2 cm (0.8 in.) characters

DISPLAY UNITS: can be made to display in $\mu\text{R/hr}$, mR/hr , R/hr , $\mu\text{Sv/h}$, mSv/h , Sv/h , $\mu\text{rem/hr}$, mrem/hr , rem/hr , cpm , cps , and others

STATUS: (green light) instrument functioning properly

LOW ALARM: (yellow LOW ALARM light and slow beep) can be set at any point from 0.0 9999

HIGH ALARM: (red HIGH ALARM light and fast beep) can be set at any point from 0.0 9999

AUDIO: Intensity can vary from approximately 68 dB to 100 dB through operation of the external rotary baffle and the internal voltage connection. Frequency is approximately 3 kHz

LOW BAT: (yellow light) indicates less than 2 hours of battery power remaining

OVERLOAD: senses detector saturation (displays: “-OL-”)

OVERRANGE: radiation field being measured exceeds counting range of instrument (displays: “- - -”)

REMOTE (optional): allows for connection of red strobe for remote indication of an alarm

POWER: 9 Vdc wall-mount adapter, handles any mains voltage in the world, supplied with four sets of prongs for almost any style wall receptacle

BATTERY LIFE: typically 8 hours in non-alarm condition

BATTERY CHARGER: battery is continuously trickle-charged with instrument connected and line power on

CONSTRUCTION: aluminum housing with ivory powder-coat finish

TEMPERATURE RANGE: -20 to 50 °C (-4 to 122 °F), may be certified for operation from -40 to 65 °C (-40 to 150 °F)

SIZE: 26.2 x 24.6 x 8.4 cm (10.2 x 9.7 x 3.3 in.) (H x W x D)

WEIGHT: 4.7 kg (10.3 lb)

Options

Various options are available for Model 375-Series systems, including enclosures, remote displays, alarm annunciators, signal output, and networking options. Visit our website to view the current list of available options.

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Note: specifications subject to change without notification. We are not responsible for errors or omissions.

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