

# Model 375-10 Gamma Area Monitor

*Radiation Detection for a Safer World*



Ludlum Measurements, Inc.

## Features

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



Part Number: 48-3443

## Introduction

This wall-mounted area monitor is simple to set up, use, and calibrate. It is both an effective and cost-effective controller, and is paired with an internal scintillation detector normally calibrated to be non-sensitive to low-energy medical isotopes. The detector's removable lead shield provides greater resistance to low-energy sources in order to prevent nuisance alarms.

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.

## Specifications

INDICATED USE: radiation monitoring

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

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

DISPLAY UNITS: can be made to display in  $\mu\text{R/hr}$ ,  $\text{mR/hr}$ ,  $\text{R/hr}$ ,  $\mu\text{Sv/h}$ ,  $\text{mSv/h}$ ,  $\text{Sv/h}$ ,  $\mu\text{rem/hr}$ ,  $\text{mrem/hr}$ ,  $\text{rem/hr}$ ,  $\text{cpm}$ ,  $\text{cps}$ , 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  $^{\circ}\text{C}$  (-4 to 122  $^{\circ}\text{F}$ ), may be certified for operation from -40 to 65  $^{\circ}\text{C}$  (-40 to 150  $^{\circ}\text{F}$ )

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:** red alarm strobe & horn, relay outputs, external enunciators, 4-20 mA output, industrial camera, remote displays, webpage software, logging software, printer