

Model 375/1 Area Monitor



Ludlum Measurements, Inc.

Features

- Internal CsI Scintillator Detector
- Affordable Area Monitor
- Compact, Integrated Design
- Low Background Sensitivity
- Audio & Visual Alarm
- Networkable, Requires Ethernet or Webpage Interface Option



Introduction

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/ μ 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 is a positive indication of instrument operation.

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 analog output is provided.

Note: While the detector used in this instrument is sensitive and is often used for detection of near-background levels of radiation, its nonlinear energy response means that dose and exposure measurements may be over/underreported.

Specifications

Part Number: 48-3831

DETECTORS: 18 mm CsI detector (nonlinear energy response, see curve at right)

SENSITIVITY: 120 cpm per μ R/hr

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

DISPLAY UNITS: μ R/hr (other units available upon request)

STATUS INDICATORS:

- STATUS: green light, instrument functioning properly
- LOW ALARM: yellow light, slow audible beep (1/sec) audible tone (can be set at any point from 0.0 to 9999)
- HIGH ALARM: red light, fast beep (4/sec) audible tone (can be set at any point from 0.0 to 9999)
- OVERLOAD: senses detector saturation (indicated by display reading "-OL-")
- OVERRANGE: indicates radiation field being measured has exceeded counting range of instrument

ALARM AUDIO OUTPUT: Intensity can vary from approximately 69 dB to 100 dB through operation of the external rotary baffle and the internal voltage connection. Frequency is approximately 3 kHz.

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

BATTERY LIFE: typically 48 hours in non-alarm condition, 12 hours in alarm condition

BATTERY CHARGER: battery is continuously trickle charged when instrument is connected to line power and turned on

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, 6-volt lead-acid rechargeable battery (built-in)

CONSTRUCTION: aluminum housing with ivory powder coat

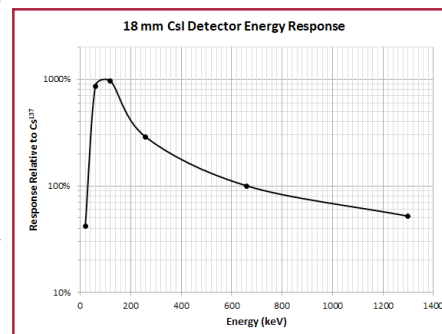
TEMPERATURE RANGE: -20 to 50 °C (-4 to 122 °F)

SIZE: 18.7 x 24.6 x 6.4 cm (7.5 x 9.7 x 2.5 in.) (H x W x L)

WEIGHT: 2.1 kg (4.7 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.



Ludlum Measurements, Inc. P.O. Box 810, Sweetwater, Texas 79556

Web: <http://www.ludlums.com> Tel: 800-622-0828 / 325-235-5494 / Fax: 325-235-4672 / Email: sales@ludlums.com

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

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PEO B.V.

info@gotopeo.com
www.gotopeo.com

The Netherlands

Havenweg 16, 6603 AS Wijchen
+31 (0)24 648 86 88

Belgium

Watermolenstraat 2, B-2910 Essen
+32 (0)3 309 32 09

CoC 34107894

VAT NL807859151B01

IBAN NL29 RABO 0356 1960 46

BIC RABONL2U

