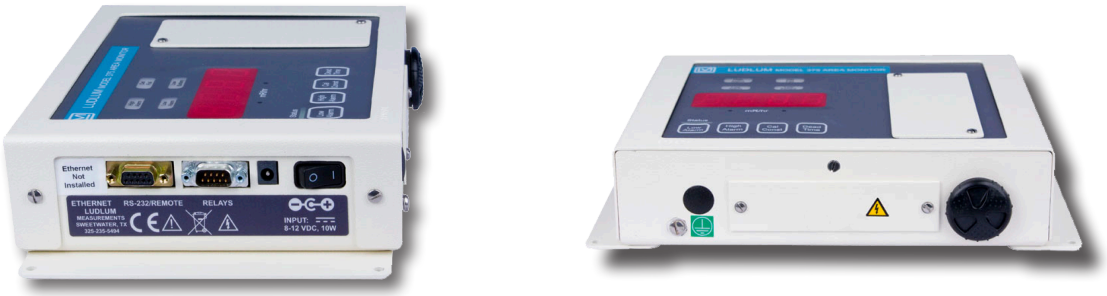
Model 375/4
Digital Wall-Mounted Gamma Area Monitor

Ludlum Measurements, Inc.

Features

- Easy Setup and Use
- Internally Mounted Energy Compensated GM Detector
- Range: 0.01 mSv/h to 100 mSv/h (1.0 mR/hr to 10 R/hr)
- User-Programmable Alarms
- User-Programmable Units of Measurement
- Audio and Visual Alarms
- Networkable, Requires Ethernet or Webpage Option
- 48-Hour Battery Backup

Part Number: 48-2411



Views of left side panel and bottom panel of instrument

Introduction

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 mS/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 alarm. A green status light is a positive indication of instrument operation.

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. The battery backup provides 48 hours of additional use after the primary power is removed.

Below: optional Environmental Enclosure for Model 375 Digital Controller: NEMA 4 Weatherproof Enclosure with see-through front window (Part Number 4396-068)

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

Sept 2019

Model 375/4
Digital Wall-Mounted Gamma Area Monitor

Ludlum Measurements, Inc.

Specifications

DISPLAY: four-digit LED display with 2 cm (0.8 in.) character height
DISPLAY RANGE: 000.0 to 9999 (Series One: 00.00 to 9999)
OPERATING RANGE: 0.01mSv/h to 100 mSv/h (1 mR/hr to 10 R/hr)
DISPLAY UNITS: can be made to display in µR/hr, mR/hr, R/hr, µSv/h, mSv/h, Sv/h, µrem/hr, mrem/hr, rem/hr, cpm, cps, and others
LINEARITY: readings within 10% of true value with detector connected
RESPONSE: typically 3 seconds from 10% to 90% of final reading
INDICATORS:

- STATUS: (green light) instrument functioning properly
- LOW ALARM: (yellow light and slow beep) can be set at any point from 0.0 to 9999 (00.00 to 9999 for Series One)
- HIGH ALARM: (red light and fast beep) can be set at any point from 0.0-9999 (00.00 to 9999 for Series One)
- DET FAIL: (red light and audible tone) for conditions of detector overload, no count from detector, or instrument failure
- LOW BAT: (yellow light) indicates less than 2 hours of battery power remaining
- OVERLOAD: display reading of "-OL-" and audible FAIL alarm indicate detector saturation
- OVERRANGE: display reading of "----" and activated low and high alarms indicate that the radiation field being measured has exceeded the counting range of the instrument (or when dead time correction accounts for more than 75% of the displayed reading)

REMOTE (optional): allows for connection of Ludlum Model 271 or 272 remote units
ETHERNET (optional): 10 Base-T connection for use with Ludlum's software
CALIBRATION CONTROLS: accessible from the front of instrument (protective cover provided)
HIGH VOLTAGE: user-adjustable from 200 to 2500 volts
DEAD TIME: user-adjustable to compensate for dead time of the detector and electronics (can be read off the display)
AUDIO: can vary from approximately 68 dB to 100 dB through operation of the external rotary baffle and the internal voltage connection
RS-232 OUTPUT: a 2-second dump for computer data logging
POWER: 9 Vdc wall-mount adapter with four sets of prongs for almost any style wall receptacle, 6 volt sealed lead-acid rechargeable backup battery (built-in)
BATTERY LIFE: typically 48 hours in non-alarm condition; 12 hours in alarm condition
BATTERY CHARGER: battery is continuously trickle charged when the instrument is connected to line power and turned on
CONSTRUCTION: aluminum housing with ivory powder-coat finish
TEMPERATURE RANGE: -15 to 50 °C (5 to 122 °F); may be certified for operation from -40 to 65 °C (-40 to 150 °F)
SIZE: 18.7 x 24.6 x 6.4 cm (7.4 x 9.7 x 2.5 in.) (H x W x D)
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