

Model 375P-336-1 Monitoring System



Ludlum Measurements, Inc.

Features

- Weatherproof Detector Enclosures for Outdoor Applications
- Affordable Digital Controller
- 2 Plastic Scintillation Detectors
- Programmable Alarms
- Networkable, Requires Ethernet or Webpage Option
- Includes Check Source for Calibration
- 24-Hour Battery Backup



Introduction

The Model 375P-336-1 is a digital Model 375 Controller coupled to two 2752 cm³ (168 in³) plastic scintillation detectors. The detectors are housed in weatherproof enclosures that can be mounted outdoors. The Model 375 Controller is not weatherproof and must be mounted either indoors or within an environmental enclosure (available separately, see Options). This simple and cost-effective solution is easy to operate and maintain. A 24-hour battery backup ensures operation in the event of loss of external power. The controller supplies local alarms, but it may also be connected to external alarms or put onto an Ethernet network, if desired (with optional accessories).

Specifications

Part Number: 48-3535

DETECTOR: 2 ea. 2753 cm³ (168 in³) plastic scintillation detectors in weatherproof enclosures. Each detector is supplied with a 15.2 m (50 ft) coaxial cable.

TYPICAL SENSITIVITY (137Cs): 200 cps per μ R/hr per detector

RANGE: 0.0–9999 kcps

LINEARITY: reading within 10% of true value

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

STATUS: (green light) instrument functioning properly

SIGMA ALARM: (red ALARM light and audible tone) can be set at any point from 0.0–999 sigma

SUM ALARM: (red ALARM light and audible tone) can be set at any point from 0.0–9999 kcps.

NOTE: audible alarm annunciators can be configured as a single beep if desired

ALARM RESPONSE TIME: 2 seconds or less, based on internal dip switch setting

DET FAIL: (red light and audible tone) indicates no counts from detector or instrument failure

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

OVERRANGE: (“----”) indicates radiation field exceeds counting range of instrument

RELAY OUTPUT: mains (120 or 240 Vac) output on alarm, 9-pin connector providing RS-232 output, signal ground connection, FAIL and ALARM signals (current sink), and direct connection to battery and ground

CALIBRATION CONTROLS: accessible from front of instrument (protective cover provided)

POWER: 95-135 Vac (178–240 Vac available), 50–60 Hz, 6-volt sealed lead-acid rechargeable battery (built-in)

BATTERY LIFE: typically 24 hours in non-alarm condition

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

CONSTRUCTION (electronics): aluminum housing with ivory powder-coat

TEMPERATURE RANGE: -15 to 50 °C (5 to 122 °F)

SIZE: Electronics: 26.2 x 24.6 x 8.4 cm (10.3 x 9.7 x 3.3 in.);

Detectors (ea.): 104.1 x 17.1 x 5.4 cm (41 x 6.75 x 2.125 in.)

WEIGHT: Electronics: 4.2 kg (9.3 lb); Detectors (ea.): 10.7 kg (23.5 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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