

# Model 375P-2000 Outdoor Monitoring System



Ludlum Measurements, Inc.

## Features

- Checks for Surface Contamination Entering/Exiting Facilities
- Affordable Digital Controller
- Four Weatherproof Encased and Shielded Plastic Scintillator Detectors
- User-Adjustable Alarms
- Networkable, Requires Ethernet or Webpage Option
- 24-Hour Battery Backup



## Introduction

The Model 375P-2000 is a Digital Model 375 Controller coupled to four lead-shielded 7866 cm<sup>3</sup> (480 in<sup>3</sup>) plastic scintillator detectors. The detectors are encased in weathertight enclosures suitable for the outdoor environment. The Model 375P Controller is not weatherproof and must be mounted either indoors or within an environmental enclosure (available separately). This cost-effective solution offers a simple system that is easy to operate and maintain.

The controller supplies local alarms, but may also be connected to external alarms or put onto an Ethernet network if desired. In addition, a 24-hour battery backup to keep the system operational in the event power is lost.

**Vehicle Radiation Monitor:** The Model 375P-2000V (Part Number: 48-4185) variant is also available. This system includes vehicle presence sensors that prevent the unit from alarming unless a vehicle is being surveyed and the alarm threshold has been exceeded.

## Specifications

Part Number: 48-4236

### SYSTEM INCLUDES

- 1 ea. Model 375P electronics
- 4 ea. 7866 cm<sup>3</sup> (480 in<sup>3</sup>) plastic scintillation detectors with 0.33 cm (0.13 in.) lead shielding in weathertight housings

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

**STATUS:** (green light) instrument functioning properly

**SIGMA ALARM:** indicated by red ALARM light and audible tone (can be set at any point from 0.0 to 999 Sigma)

**SUM ALARM:** indicated by red ALARM light and audible tone can be set at any point from 0.0 to 999 kcps) *Note:* audible alarm annunciators can be configured as a single beep if desired

**DET FAIL:** red light and audible tone greater than 68 dB at 61 cm (24 in.) indicates no counts from detector or instrument failure

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

**OVERRRANGE:** ("OL") indicates radiation field being measured exceeds counting range of instrument

**RELAY OUTPUT:** mains (120 or 240 Vac) output on alarm

**DATA OUTPUT:** 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 to 135 Vac (178 to 240 Vac available), 50 to 60 Hz, 6-volt sealed lead-acid rechargeable battery (built-in)

**BATTERY LIFE:** typically 24 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

**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.) (H x W x D)

detectors (ea.): 20.3 cm x 183 cm (8 x 72 in.) (Dia x L)

**WEIGHT:** electronics: 4.2 kg (9.3 lb)

detectors (ea.) 29.5 kg (65 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.

Sept 2019