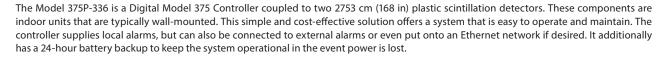
## **Model 375P-336**Monitoring System



## **Features**

- Excellent Surface Contamination Screening Tool for:
  - Small Articles
  - Baggage
  - Packages
  - Medical Waste
- · Affordable Digital Controller
- Dual Large Plastic Scintillator Detectors
- Programmable Alarms
- Networkable, Requires Ethernet or Webpage Option
- 24-Hour Battery Backup





**Medical Application:** This instrument is ideal for monitoring personnel or laundry for possible contamination in the nuclear medicine department. The monitor may also be used as a radiation contamination triage device to alert emergency department personnel of potentially contaminated patients or equipment coming into the emergency room. Ludlum Measurements encourages the use of an optional rail, Part Number 2311167, in those environments where equipment, carts, or other traffic might strike and damage the detectors.

**Surface Contamination Inspection:** Inspecting items using hand held instruments can be too time consuming in many cases. The Model 375P-336 facilitates a more rapid and uniform inspection by placing two relatively large sized scintillation detectors in close proximity to the incoming or outgoing articles undergoing inspection. Both detectors are continuously monitored by the digital controller so any offending item can immediately trigger an alarm. Alarm conditions can be set up to automatically halt production conveyance devices, notify the central office, and even alert key personnel to initiate an immediate response.

## **Specifications**

Part Number: 48-3285

**DETECTORS**: 2 ea. 2753 cm<sup>3</sup> (168 in<sup>3</sup>) plastic scintillation detectors. Each detector is supplied with a 15.2 m (50 ft) coaxial cable.

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

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

**RANGE**: 0.1 to 9999 kcps

LINEARITY: reading within 10% of true value

**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 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; greater than 68 dB at 61 cm [2 ft]) indicates no counts from detector or instrument failure

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

**OVERRANGE**: indicates measured radiation field has exceeded counting range of instrument (indicated by display reading "——")

**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**: 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 L) detectors (ea.): 104.1 x 17.1 x 5.3 cm (41 x 6.8 x 2.1 in.) (H x W x L) **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.

