

Model 375-30 Monitoring System



Ludlum Measurements, Inc.

Features

- Affordable Digital Controller
- 2 Weatherproof Encased Shielded Sodium Iodide [NaI (TI)] Detectors
- User-Adjustable Alarms
- Networkable, Requires Ethernet or Webpage Option
- 48-Hour Battery Backup
- Includes 61 m (200 ft) Cables
- 10 μCi ^{137}Cs Check Source Included



Introduction

This simple and cost-effective landfill / transfer station monitor consists of two weatherproof, lead-shielded detectors coupled to the Ludlum Model 375 Controller. The adaptable, compact, networkable controller's digital design make setup, customization, and operation of the system easy.

The controller is typically mounted indoors near the operator to take advantage of its ability to supply local alarms, but it may also be connected to external alarms or networked into the Ethernet, (with optional accessories). A 48-hour battery backup ensures operation in event of loss of external power.

Specifications

Part Number: 48-2601

DETECTORS: 2 ea. 7.6 x 2.5 cm (3 x 1 in.) shielded sodium iodide [NaI(TI)] scintillation detectors in NEMA 4x weathertight enclosures

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

DISPLAY UNITS: kcpm

STATUS: (green light) instrument functioning properly

LOW ALARM: (yellow LOW ALARM light and slow beep) can be set at any point from 0.0 to 9999

HIGH ALARM: (red HIGH ALARM light and fast beep) can be set at any point from 0.0 to 9999

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

OVERLOAD: senses detector saturation (indicated by display reading "-OL-")

OVERRANGE: the radiation field being measured has exceeded counting range of instrument (indicated by display reading "-- --")

AUDIO OUTPUT: intensity is user-adjustable, DET FAIL indicated by audible tone greater than 68 dB at 0.6 m (2ft)

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

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 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

CONSTRUCTION: aluminum housing with ivory powder coat

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

SIZE: electronics: 18.7 x 24.6 x 6.4 cm (7.4 x 9.7 x 2.5 in.) (H x W x L)

detectors: 33 x 43.2 x 21.6 cm (13 x 17 x 8.5 in.) (H x W x L)

WEIGHT: electronics: 2.3 kg (6.5 lb)

detectors 14.5 kg (32 lb) each

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