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Ludlum
Model 375-30 Waste Monitor
PART NUMBER:48-2601

- **Highly Sensitive Lead Shielded NaI(Tl) Scintillators**
- **LED Digital Display**
- **Battery Backup**



System Includes

- 1 ea. Model 375 Digital Electronics
- 2 ea. 3"(7.6cm) diameter X 1"(2.5cm) NaI(Tl) Detectors with 200'(61m) cables
- 1 ea. 10 μ Ci(370 kBq) Cs-137 Check Source

Options

- 5"(12.7cm) Diameter Red Alarm Strobe with 50'(15m) Cable
- 40 Column Date/Time Printer Kit
- PC Data Logging Software

INDICATED USE: Waste monitoring

DETECTORS: 2 ea. 3"(7.6cm) diameter X 1"(2.5cm) thick shielded NaI(Tl) scintillation detectors with up to 200' cables (*optional NEMA4x enclosures included*)

CONNECTORS: BNC (*Others available on request*)

SENSITIVITY: Will detect a un-shielded 40 microCi Cs-137 source at 10' from the detector and a un-shielded 10 microCi Cs-137 source at 5 feet from the detector

FUNCTIONAL CHECK SOURCE: 7/8" diameter 10 microCi Cs-137 check source

DISPLAY: 4 digit LED display with 0.8"(2cm) character height

DISPLAY UNITS: Can be made to display in microR/hr, mR/hr, R/hr, microSv/h, mSv/h, Sv/h, microrem/hr, mrem/hr, rem/hr, cpm, cps, and others

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LINEARITY: Reading within plus or minus 10% of true value with detector connected

RESPONSE: Typically 3 seconds from 10% to 90% of final reading

STATUS: (*green light*) Indicates the instrument is functioning properly

LOW ALARM: Indicated by a yellow light and slow beep (*1 per second*) audible tone (*can be set at any point from 0.0 - 9999*)

HIGH ALARM: Indicated by a red light and fast beep (*4 per second*) audible tone (*can be set at any point from 0.0 - 9999*)

NOTE: Audible indicators can be configured as a single beep if desired.

DET FAIL: (*red light and audible tone; greater than 68 Db at 2 feet*) Indicates detector overload, no count from detector, or instrument failure

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

HIGH VOLTAGE: Adjustable from 200 - 2500 volts

THRESHOLD: Adjustable from 2 - 100 mV

DEAD TIME: Adjustable to compensate for dead time of the detector and electronics (*can be read on the display*)

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

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

DATA OUTPUT: 9 pin connector providing 5 decade log output, RS-232 output, signal ground connection, FAIL and Alarm signals (*current sink*), and direct connection to battery and ground

POWER: 95 - 135 VAC (*178 - 240 VAC available*), 50 - 60 Hz single phase (*less than 100 mA*), 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

BATTERY DEPENDENCE: Less than 3% change in readings to battery endpoint.

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

May be certified for operation from -40° F(-40° C) to 150° F(65° C)

SIZE: ELECTRONICS: 7.4" (18.7 cm)H X 9.7" (24.6 cm)W X 2.5" (6.4 cm)L

DETECTORS(ea.): 13"(33 cm)H X 17"(43.2 cm)W X 8.5"(21.6 cm)L

WEIGHT: ELECTRONICS: 6.5 lbs (2.3 kg)

DETECTORS(ea.): 32 lbs(14.5 kg)