

Model 375-600 Small Area Monitor



Ludlum Measurements, Inc.

Alarms at 7' with a
10 μ Ci ¹³⁷Cs source,
alarm set at 1.5 times
background



Part Number: 48-3458

INDICATED USE: Area monitoring

DETECTOR: 630 cm³ shielded plastic scintillation

DIMENSIONS: 15" (38cm) X 28" (71cm) X 1.5" (3.8cm)

SHIELDING: 0.125" lead on five sides

SENSITIVITY: 30kcpm/ μ R/hr, ¹³⁷Cs

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

DISPLAY UNITS: kcpm

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

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

STATUS: (*green light*) instrument functioning properly

HIGH ALARM: Indicated by red 5 inch diameter xenon strobe, red HIGH ALARM light, and fast beep (*4 per second*) audible tone (*can be set at any point from 0.0 - 9999*)

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

NOTE: Audible alert and alarm 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

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

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

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

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

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

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 8 hours in non-alarm condition

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

CONSTRUCTION: Steel housing with ivory powder coat paint

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

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

SIZE: 2' H X 3' W X 1' D (61 X 91.5 X 30.5cm) chassis size

WEIGHT: 125 lbs (57 kg)