

MODEL 375-10 Digital Area Monitor



Ludlum Measurements, Inc.

INDICATED USE: Area monitoring - normally calibrated to NOT see low-energy isotopes

DETECTOR: 2" X 2" NaI (TI) Scintillator

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

DISPLAY UNITS: Can be made to display in $\mu\text{R/hr}$, mR/hr , R/hr , $\mu\text{Sv/h}$, mSv/h , Sv/h , cpm , cps

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

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

STATUS: (*green light*) instrument functioning properly

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*)

HIGH ALARM: Indicated by red HIGH ALARM light and fast beep (*4 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, 10BaseT Ethernet output, signal ground connection, FAIL and ALARM signals (*current sink*), and direct connection to battery and ground

REMOTE(optional): Model 271 or 272 Remote units

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: Aluminum 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: 10.3" H X 9.7" W X 3.3" D (26.2 X 24.6 X 8.4 cm)

WEIGHT: 9.3 lbs (4.2 kg)



Part Number: 48-3443