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## Ludlum Model 375 Area Monitor with Model 271 and 60 ft cable



### Model 375 Area Monitor

**Indicated Use:** Area Monitoring

**Detector:** Geiger-Mueller

**Range:** 0.1 mR/hr - 1 R/hr

**Display:** 4 digit LED display with 0.8" character height

**Display Range:** 000.0 - 9999

**Display Units:** Can be made to display in microR/hr, mR/hr, microSv/h, mSv/h, Sv/h, cpm, cps, and others

**Linearity:** Reading within  $\pm 10\%$  of true value

**Response:** Typically 3 sec 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 sec) audible tone (*can be set from 0.0 - 9999*)

**High Alarm:** Indicated by a red light and fast beep (4 per sec) audible tone (*can be set 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 ft) Indicates detector overload, no count from detector, or instrument failure

**Low Bat:** (yellow light) Indicates less than 2 hrs of battery power remaining.

**Calibration Controls:** Accessible from front of instrument (*protective cover provided*)

**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 read on 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 "---"*)

### Model 375 Area Monitor with Model 271 Remote and 60 ft cable

- \* LED Digital Display
- \* Low and High Alarm Indicators
- \* Programmable Alarm Indicator
- \* Built-In Energy Compensated G-M
- \* Detector Fail Indicator
- \* Battery Backup
- \* Data Output/RS-232
- \* Total Counting Range from 0.1 mR/hr - 1R/hr

### Model 271 Remote

**Indicated Use:** Remote display for Model 375 Area Monitor

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

**High Alarm:** (*red LED*) Indicates that the radiation level exceeds the high alarm point

**Det Fail:** (*red LED*) Indicates detector overload, no count from detector, or instrument failure

**Audio:** Unimorph type with On/Off switch (*greater than 68 Db at 2 feet*)

**Power:** Provided by Model 375

**Construction:** Aluminum housing with ivory polyurethane enamel paint

**Temperature Range:** -4°F to 122°F. May be certified for operation from -40°F to 150°F

**Size:** 7" H x 6" W x 2" L      **Weight:** 1.5 lbs

**Data Output:** 9 pin connector providing 5 decade log output, RS-232 output, signal ground connections, 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*) hours in alarm condition

**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 polyurethane enamel paint

**Temperature Range:** -4°F to 122°F May be certified for operation from -40°F - to 150°F

**Size:** 7.4" H x 9.7" W x 2.5" L      **Weight:** 6.5 lbs