

# PYCKO SCIENTIFIC LIMITED

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Your Alternative  
To The Obvious

## Gamma Area Monitor - Model 375-10

- **Affordable Area Monitor**
- **Integrated Design**
- **Battery Backup**
- **Networkable**
- **Audio & Visual Alarms**



The Model 375-10 is a Digital Model 375 Controller coupled to a shielded 2" diameter by 2" thick NaI(Tl) scintillation detectors. The detector is encased within the 375 Controller which is normally mounted to a wall indoors. This simple and cost-effective solution offers a simple system that is easy to operate and maintain. The controller supplies local alarms but can also be connected to external alarms or even put onto an Ethernet network if desired. It additionally has a 48 hour battery backup to keep the system operational in the event power is lost. See Model 375 for additional detail and available options

**INDICATED USE:** High sensitivity, low energy gamma areas

**DETECTION RANGE:** 0.1 uSv/hr to 20 uSv/hr

**DETECTOR TYPE:** Internally mounted 2" x 2" NaI(Tl) scintillator. A removable lead- shield surrounds the detector providing greater resistance to alarm on low-energy fields

**SIZE:** 26.2 x 24.6 x 8.4 cm

**WEIGHT:** 4.2 kg

**CONNECTION:** 10Base-T Ethernet included

# MODEL 375-10 Digital Area Monitor

**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 2 cm digits

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

**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:** Aluminium housing with ivory powder coat paint

**TEMPERATURE RANGE:**  $-15^{\circ}\text{C}$  to  $50^{\circ}\text{C}$   
May be certified to operate from  $-40^{\circ}\text{C}$  to  $65^{\circ}\text{C}$

**SIZE:** 26.2 X 24.6 X 8.4 cm

**WEIGHT:** 4.2 kg

