Technology for a Healthy Planet

imi

Radiation Detection Instruments since 1986

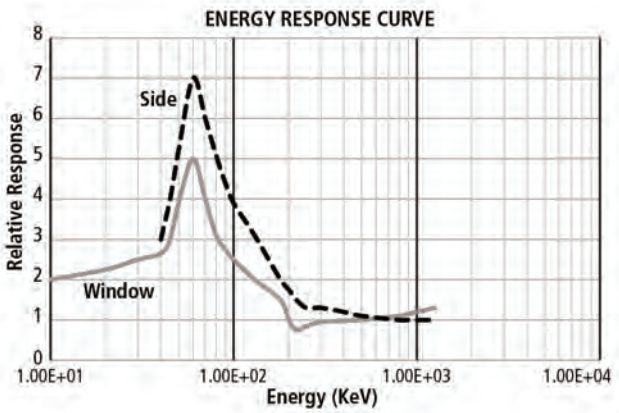
Rad 100™ Nuclear Radiation Monitor

The Rad 100™ measures Alpha, Beta, Gamma, and X-radiation. Its digital display shows readings in your choice of counts per minute (CPM), µSv/hr or mR/hr, or in accumulated counts. A red LED blinks and a beeper chirps with each count (the chirp can be muted).

- Monitor personal radiation exposure
- Monitor an area or perimeter
- Detect radiation leaks and contamination
- Ensure regulatory compliance
- Monitor changes in background radiation
- Demonstrate principles of nuclear physics
- Check for radioactive minerals in the earth

Technical Specifications

Detector :	Halogen-quenched Geiger-Mueller detector (LND712) Mica end window density is 1.5-2.0 mg/cm^2 Side wall is 0.012" #446 stainless steel Detects Alpha, Beta, Gamma, and X-radiation
Display :	4-digit liquid crystal display with mode indicators
Operating Range :	µSv/hr: .000 to 1,100 mR/hr: .000 to 110 CPM: 0 to 350,000 CPS: 0 to 3,500 Total: 0 to 9,999,000 counts
Calibration:	Cesium-137 (gamma)
Gamma Sensitivity :	1,200 CPM/mR/hr, 120 CPM/µSv/hr (Cs-137)
Accuracy :	±10% typical; ±15% maximum
Count Light :	Red LED flashes with each count
Audio :	Beeper chirps for each count (can be muted)
Ports :	• Output: Stereo 3.5 mm jack sends counts to computers, data loggers, other CMOS-compatible devices, earphones, and educational data collection systems. 0-9 V, 1 kOhm impedance. • Input: 2.5 mm mono jack provides calibration input. 0-3.3 V, > 5 µs width, rising edge triggered.
Anti-Saturation :	Readout holds at full scale in fields up to 100 times the maximum reading
Temperature Range :	-20° to +50° C, -4° to +122 F
Power :	One 9-volt alakaline battery; nominal battery life 2,000 hours typical, 700 hours minimum at normal backgroung radiation levels at sea level. Battery life decreases as radiation level rises.
Size :	150 x 80 x 30 mm (5.9" x 3.2" x 1.2")
Weight :	225 grams (8 oz) including battery
Options :	Computer software and cable available
Certifications :	CE Certified: Emissions: EN 55011:2009 + A1:2010 (Class B emissions limits); EN 61326-1:2006 (Class B) RF Emissions Immunity: EN 61326-1:2006 (Annex C) Portable Test and Measurement Equipment; EN 61000-4-2:1995 (ESD); EN 61000-4-3:1997 (EM) RoHS Complaint Meets WEEE standards



High Quality, High Contrast LCD Display

Timer Set Switches

Alpha Beta Window

Specifications subject to change without notice. Rev. A.

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