Rad 100™ Nuclear Radiation Monitor

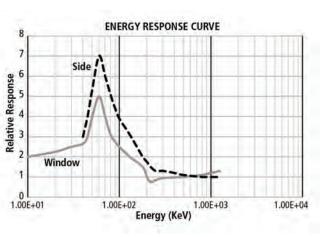


The Rad 100[™] measures Alpha, Beta, Gamma, and X-radiation. Its digital display shows readings in your choice of counts per minute (CPM), µSv/hr or mR/hr, or in accumulated counts. A red LED blinks and a beeper chirps with each count (the chirp can be muted).

- 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	8	
Display:	4-digit liquid crystal display with mode indicators	7	Sid
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	Relative Response	
Calibration:	Cesium-137 (gamma)	1	Window
Gamma Sensitivity:	1,200 CPM/mR/hr, 120 CPM/μSv/hr (Cs-137)	0	01
Accuracy:	±10% typical; ±15% maximum	1.00E+	-01
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 other CMOS-compatible devices, earphones, and educational data collection systems. 0-9 V, 1 kOhm 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 li 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 (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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