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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 ENERGY RESPONSE CURVE			
Display :	4-digit liquid crystal display with mode indicators	7	Side 🔨		
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 Windo	w		
Gamma Sensitivity :	1,200 CPM/mR/hr, 120 CPM/µSv/hr (Cs-137)	0	1005-02	1.005-02	
Accuracy :	±10% typical; ±15% maximum	1.000+01	Energy (K	(eV)	
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 compute other CMOS-compatible devices, earphones, and educational data collection systems. 0-9 V, 1 kOh Input: 2.5 mm mono jack provides calibration input. 0-3.3 V, > 5 μs width, rising edge triggered. 	rs, data loggers, m impedance.		SET CPM mR/hr JSv/hr	
Anti-Saturation :	Readout holds at full scale in fields up to 100 times the maximum reading	out holds at full scale in fields up to 100 times naximum reading		High Quality, High Contrast LCD Display	
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.		+ SET		
Size :	150 x 80 x 30 mm (5.9" x 3.2" x 1.2")		Switches	Alpha Beta Window	
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: 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	; limits); (ESD);			

Specifications subject to change without notice. Rev. A.





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