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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	ENERGY RESPONSE CURVE	
Display :	4-digit liquid crystal display with mode indicators	7 Side A	
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)	Window	
Gamma Sensitivity :	1,200 CPM/mR/hr, 120 CPM/µSv/hr (Cs-137)	0	
Accuracy :	±10% typical; ±15% maximum	- 1.00E+01 1.00E+02 1.00E+03 1.00E+04 Energy (KeV)	
Count Light :	Red LED flashes with each count		
Audio :	Beeper chirps for each count (can be muted)		
Ports :	 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	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″)	Timer Set Alpha Beta Switches 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		

Specifications subject to change without notice. Rev. A.





IMI - International Medcom, Inc. http://medcom.com

103 Morris Street, Suite A5 Sebastopol, CA 95472 USA contact@medcom.com Tel: 707.823.0336 Fax: 707.823.7207 Toll Free:1.877.378.1010