Radalert 100X™ Nuclear Radiation Monitor



The Radalert 100X[™] measures alpha, beta, gamma, and X-radiation. Its digital display shows readings in your choice of counts per minute (CPM) μSv/hror mR/hr or in accumulated counts. A red LED blinks and a beeper chirps with each count (the chirp can be muted). An audible alert sounds when the radiation reaches a user-adjustable level.

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

Technical Specifications

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Detector:	Halogen-quenched Geiger-Mueller tube (LND 712) Mica end window density 1.5-2.0 mg/cm ² Side wall is 0.012* #446 stainless steel Detects Alpha, Betta, Gamma, and X-radiation	ENERGY RESPONSE CURVE
Display:	4-digit liquid crystal display with mode indicators	85
Operating Range :	µSv/hr: .000-1,100 mR/hr: .000-1,100 CPN: 0 10 35,000 CPS: 0 10 3,500 Total: 0 10 9,999,000 counts	900 5 1 5 4 1 5 7 1
Calibration:	Cesium -137 (gamma)	
Gamma Sensitivity:	1,200 CPM/mR/hr referenced to Cs-137	A SET -
Accuracy:	±10% typical; ±15% maximum	
Alert Range:	User-adjustable alert level to 500 µSv/hr & 60,000 CPM	/ /
Count Light:	Red LED flashes with each count	
Audio:	Beeper chirps for each count (can be muted)	Alert Switches Alpha Window
Ports:	- Output: Stereo 3.5 mm jack sends counts to computers, data loggers, other CNOS-compatible devices, earphones, and educational data collection systems. 9-V. 1 NOhm impedance Input: 2.5 mm mono jack provides calibration input. 0-3.3 V. > 5 ys width, rising edge triggered.	Extend allow they deplote in Student Transfer
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	
Timer:	Can set sampling periods of 1 minute to 40 hours	
Averaging Periods:	Display updates every 3 seconds, showing the average for the past 90-second time period at normal levels. The Averaging period decreases as the radiation level increases.	Cal Input >
Power:	One 9-volt alkaline battery; battery life 2,000 hours typical, 700 hours minimum at normal gackground radiation levels at sea level. Battery life decreases as radiation level rises.	Z C € RoHS Model Serial Number R 100X X00400
Size:	150 x 80 x 30 mm (5.9"x 3.2"x 1.2")	R 100X X00400
Weight:	225 grams (8 oz) including battery	
Options:	Computer software and cable available	CAUTION High withop indox - 3s and open
Certifications :	CE Certified: Emissions: EN 55011:2009 + A1:2010 (Class 8 emissions limits); EN 61326-1: 2006 (Class 8) 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 Compliant: Meets WEEE standards