

Model Radalert 100X™

Radiographic Survey Meters

model
Radalert 100X™



Features:

- Display- 4 digit liquid crystal display with mode indicators
- Monitor personal radiation exposure
- Monitor an area or perimeter
- Detect radiation leaks and contamination
- Ensure regulatory compliance
- Meets CE Certification, RoHS compliant and WEEE standards
- Demonstrate principles of nuclear physics
- Check for radioactive minerals in the earth
- Size: 150 x 80 x 30 mm (5.9" x 3.2" x 1.2")
Weight: 225 grams (8.0 oz) w/battery



The Radalert® 100X is a general purpose geiger counter that measures alpha, beta, gamma, and X-radiation. Features of the Radalert® 100X, include a three-second update and a Utility Menu that allows you to change the default settings for several operating parameters. Its digital liquid crystal display (LCD) shows the current radiation level in your choice of SI units (microsieverts per hour) from .000 to 1,100 and counts per minute (CPM) from 0 to 350,000 or counts per second (CPS) from 0 to 3,500. For users of conventional units mR/hr (milliroentgens per hour) from .000 to 110 and CPM are optional in the Utility Menu. This instrument also offers an accumulated total and timer function, up to 9,999,000 counts and 40 hours.

Sensor: Halogen-quenched Geiger-Mueller detector
Mica end window density is 1.5-2.0 mg/cm²
Side wall is 0.012" #446 stainless steel
Detects Alpha, Beta, Gamma, and X-radiation
Accuracy: ±10% typical; ±15% max. (μSv/hr and mR/hr modes)

Alert: User-adjustable alert level to 500 μSv/hr and 60,000 CPM. Beeper sounds the alert

Anti-Saturation: Readout holds at full scale in fields up to 100 times the maximum ready

Audio: Beeper chirps for each count (can be muted)

Calibration: Cesium- 137 (gamma)

Count Light: Red LED flashes with each count

Detector: Halogen-quenched Geiger-Mueller detector-

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Side wall is 0.012" #446 stainless steel

Detects Alpha, Beta, Gamma, and X-radiation

Gamma Sensitivity: 1,000 CPM/mR/hr referenced to Cs-137

Operating Range:mR/hr: .000-110; CPM: 0-350,000;
μSv/hr: .000-1,100; CPS: 0-3,500; Total: 0-9,999,000 counts

Timer: up to 40 hours

Output: Stereo 3.5 mm jack sends counts to computers, data loggers, other CMOS-compatible devices, headphones and educational data collection systems.

Input: Mono 2.5 mm jack provides electronic calibration input. 0-3.3 V, >5 μs width, rising edge triggered.

Power: One 9-volt alkaline battery; average battery life is 2,000 hours at typical, 700 hours minimum at normal background radiation levels at sea level. Battery life decreases as radiation level rises.

Sensitivity: 1000 cpm/mR/hr referenced to Cs-137