

model
Rad 100™



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 RAD 100™ is a general purpose geiger counter that measures alpha, beta, gamma, and X-radiation. It is intended for personal safety and educational purposes. Like the popular Radalert® 100X, the RAD 100™ features a 3-second update on its digital liquid crystal display (LCD). The LCD shows the current radiation level in your choice of microsieverts per hour (SI units) from .000 to 1,100, either counts per minute (CPM) from 0 to 350,000 or counts per second (CPS) from 0 to 3,500. When mR/hr units are selected, the LCD shows readings in milliroentgens per hour from .000 to 110. This instrument also offers an accumulated total and timer function, up to 9,999,000 counts and 40 hours. A red LED blinks and a beeper chirps with each count (the chirp can be muted).

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% maximum
Alert: No Alert feature. If your intended application requires a user-adjustable Alert, we recommend the Radalert® 100X

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

Calibration: Cesium 137 (gamma)

Count Light: Red LED flashes with each count

Operating Range:

μSv/hr: .000-1,100

CPM: 0-350,000

mR/hr: .000-110

CPS: 0-3,500

Total: 0-9,999,000 counts

Timer: up to 40 hours

Options: Computer software and cable available

Operation Manual: Rad 100 Manual

Ports: Output: Stereo 3.5 mm jack sends counts to computers, data loggers, other CMOS-compatible devices, and headphones, and educational data collection systems. 0-9 V, 1 kOhm impedance.

Input: Mono 2.5 mm jack provides 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 typical, 700 hours minimum at normal background radiation levels at sea level. Battery life decreases as radiation level rises.

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

