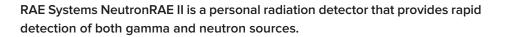


NEUTRONRAE II

Personal Radiation Detector



The NeutronRAE II's high sensitivity can alert users to the presence of a radiation threat well before they might be exposed to health-threatening levels.

The NeutronRAE II features a loud audible alarm, bright flashing LEDs, and a vibration alarm. Each alarm can be disabled separately. NeutronRAE II's water-resistant design makes for reliable operation in wet environments and for easy decontamination.

- · Quick detection of radiological threats
- · Alerts the wearer with a loud audible buzzer, bright flashing LEDs, and a built-in vibration alarm
- Water resistant/immersible
- · Dose accumulator tracks total dose exposure from gamma radiation
- NeutronRAE II is designed in compliance with IEEE ANSI N42.32 standard

DETECTOR KIT INCLUDES:

- NeutronRAE II personal radiation detector
- Belt clip
- 2 AA alkaline batteries
- Wrist strap
- User's Guide
- · Calibration certificate
- ProRAE Studio II software

APPLICATIONS

Alerts first responders to radioactive

Customs and border patrols

Security officers in nuclear power facilities, banks, government laboratories, medical facilities

Military

Government agencies

HazMat teams

Police and fire departments



KEY FEATURES

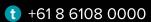
- · Detects neutrons from weapons-grade Plutonium (239Pu)
- Sensitive Csl and Lil scintillators for excellent search capability and fast response
- Continuous digital dose rate readout in $\mu R/h$ or $\mu Sv/h$ for gamma radiation, and counts per second (cps) for neutron radiation
- · Continuously accumulated total dose readout for gamma radiation
- IP-67, immersible in water for easy decontamination
- · Two operation keys, simple intuitive programming
- Continuous datalogging with a large 10,000-point datalog capacity

NEUTRONRAE II

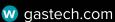
SPECIFICATIONS	Specifications subject to change without notice
Radiation Detector	Gamma: 1cc Csl (Tl) with Photodiode Neutron: 1cc Lil (Eu) with Photodiode
Energy Range	Gamma: 0.06 to 3.0 MeV Neutron: thermal to 14 MeV
Dose Equivalent Rate (DER) Range for 137Cs	1 to 20 mR/h (0.01 to 200 μSv/h)
Accuracy of DER	±20%
Neutron Measuring Range	1 to 100 cps
Dose Range	$1\mu R$ to 999 R (0.01 μSv to 9.9 Sv), gamma only
Background Reference	Background level reference automatic on start-up, plus user-initiated as needed (Search Mode only)
Calibration	None required. Periodic functional test recommended using 0.5 μCi or higher 137Cs check source. Factory calibration available if needed.
Alarm Alerts	Loud audible buzzer (85+ dB @ 12"/30 cm), built-in vibration alarm, highly visible LED lights on both sides of LCD graphic display, can be separately enabled or disabled
Alarm Modes	Search Mode: Gamma alarm threshold based on variations in local background level
	Safety Mode: User-programmable low and high gamma alarm thresholds based on dose rate (applies to gamma alarm only)

Datalog Size	10,000 data points (20 days at 180-second intervals)
Datalog Modes	Continuous: Logs data at all time Event-Driven: Starts logging data on alarm
Datalog Interval	User programmable, 1 to 3,600 seconds
Communication	Built-in Bluetooth® radio interfaces with computer for datalog download
Battery	2 AA alkaline batteries
Battery Runtime	500 hours
Temperature	-20° C to 50° C (-4° F to 122° F)
Temperature Alarm	Temperatures above 50° C (122° F)
	cause a high temperature alert message
Humidity	0% to 95% (non-condensing)
Shock Resistance	Passes drop test from 59" (1.5 m)
IP Rating	IP-67 (immersible)
Display	Graphic LCD with 1.2" x 0.75" (30.5 mm x 19 mm) viewable area can be flipped for view by user; Radiation intensity displayed in cps (gamma, neutron) or dose rate in μ R/h or μ Sv/h (gamma only)
Direct Readout	Dose rate, peak rate, minimum rate, total gamma dose, battery status, current time and date, current time since start-up, internal temperature
Ergonomics	Nonslip rubber housing with grippable ridges securely fits hand or glove
Keypad	2 operation/program buttons
Size	4.92" x 2.68" x 1.38" (125 mm x 68 mm x 35 mm)
Weight	10 oz (283 g)
Attachments	Rugged metal belt clip and wrist strap









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