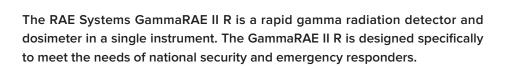


GAMMARAE II R

Radiation Detector and Dosimeter



Due to its high sensitivity at low radiation levels, GammaRAE II R can alert users of the presence of a radiation threat well before reaching health-threatening levels. Its high range and dosimeter functionality allow security and emergency responders to track their dose.

- Combined Detector and Dosimeter
- Intrinsically Safe
- Immersible
- Loud Alarm
- Dose Accumulation

GAMMARAE II R KIT INCLUDES:

- GammaRAE II R personal radiation detector/dosimeter
- Belt clip
- 2 AA alkaline batteries
- Wrist strap
- User's guide
- Calibration certificate
- ProRAE Studio Radiation software

APPLICATIONS

Customs and border patrols

Law enforcement

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

Military

Government agencies

HazMat teams

Fire departments

KEY FEATURES

Sensitive CsI scintillator for fast search capability and response

GammaRAE II R

- **Energy-compensated PIN diode** sensor for high dose rate range and accurate dosimeter capabilities
- · Prominent visible, audible and vibration alarms
- Immersible in water for easy decontamination
- Top-mounted, invertable display
- · Continuous digital readout in Rem/hour (µR/h & mR/h) or in Sievert/hour (µSv/h & mSv/h) and counts per second (cps)
- Two AA alkaline batteries last up to 600 hours
- · Large, 30,000-point datalog capacity, down loaded via cable-free Bluetooth® connection

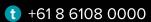
GAMMARAE II R

SPECIFICATIONS

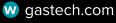
SPECIFICATIONS	Specifications subject to change without notice
Radiation Sensors	3cc CsI (TI) with Photodiode (Low channel) Energy-Compensated PIN Diode (High channel)
Energy Range	0.06 to 3.0 MeV
Dose Equivalent Rate (DER) Range for 137Cs	1 μR/h to 600 R/h (0.01 μSv/h to 6 Sv/h)
Accuracy of DER	±20%
Dosage Range	$1\mu R$ to 999.9 R (0.01 μSv to 9.9 Sv)
Background	Background level reference automatic
Reference	on start-up, plus user-initiated as needed (Search Mode only)
Calibration	None required. Periodic functional test recommended using 1 μCi and 16 μCi
	137Cs check sources. Factory calibration available if needed.
Time to Alarm	<2 seconds
Alarms	Loud audible buzzer (85+ dB @ 30 cm), built-in vibration alarm, highly visible LED lights on both sides of LCD graphic display
Alarm Settings	Dose Rate:
	Search Mode: Alarm threshold based on variations in local background level
	Safety Mode: User-programmable low and high alarm thresholds based on dose rate
	Dose:
	User-programable low and high alarm thresholds based on dose
	Stay Time: Alarms vary by time (3 min to 2 hrs, once per minute; <3 min, once every 5 sec; 0 min and beyond, same as dose alarm)

Datalog Size	30,000 data points (20 days at 60-second intervals)
Datalog Modes	Continuous: Logs data at all times,
	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 and
	configuration changes
Battery	2 AA alkaline batteries
Battery Runtime	Up to 600 hours
Temperature	-4° F to 122° F (-20° C to 50° C)
Temperature Alarm	Temperatures above 122° F (50° C)
	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)
Intrinsic Safety	Certified to meet Class I, Div. I, Groups A, B, C, D, T4 ATEX II IG EEx ia IIC T4
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 or dosage rate in divisions of R/h or Sv/h
Direct Readout	Dose rate, peak, min, total dose, battery status, time, 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	9.5 oz (270 g)
Attachments	Rugged metal belt clip and wrist strap









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