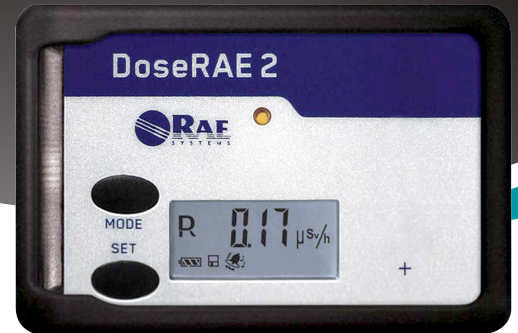


DOSERAE 2

Personal Radiation Dosage Monitoring



Electronic Dosimeter for Personal Radiation Dosage Monitoring

DoseRAE 2 is a compact, direct-reading and alarming electronic personal radiation detector. It uses a diode and a scintillation crystal to detect X- and gamma radiation, and provides real-time monitoring of personal dose and dose rate.

The real-time radiation dose rate monitoring allows immediate reaction in case of radiation occurrences and thus reduces the radiation exposure. By measuring dose equivalent and dose equivalent rate, this detector provides the functions of a dosimeter too. It also measures radiation exposure and exposure rate, which is appropriate for controlling the exposure of emergency responders to photon radiation.

Dosimeter Meets Detector: Contains two separate sensors, CsI/photodiode and PIN diode. The energy-compensated PIN diode provides high-dose-rate range coverage and accurate dose measurements, while the CsI (Cesium Iodide) scintillator provides fast response to low-level radiation.

Datalogging and Analysis: DoseRAE 2 offers continuous datalogging with a large, 3,000-point datalog capacity. With associated software, the datalog

can be downloaded via USB to a computer. This software is used for data display, analysis and record management.

Alarm Types: Integrated loud audible, bright LEDs, and vibration alarms.

Total Dose Data: Accurately accumulates real-time dose data.

National Standard Compliance: DoseRAE 2 was designed in compliance with IEEE ANSI N42.20 standard, and the performance was tested at Oak Ridge National Laboratory, Tennessee, U.S.A.

DoseRAE 2 Comes with:

- DoseRAE 2 electronic personal dosimeter with clip
- Charging and PC communication cradle
- USB communication cable
- Protective silicone boot
- CD with (1) ProRAE Dosimeter instrument configuration and data management software and (2) User's Guide
- Protective pouch with alligator clip
- Calibration and test certificate
- Warranty/registration card

KEY FEATURES

- Stand-alone electronic dosimeter with LCD display
- Multiple units with reader and software can be used as a dosimetry system
- Continuous digital dose rate readout in rem/h, Sv/h and R/h
- Continuously accumulated total dose readout in rem, Sv and R
- Prominent visible, audible, and vibration alarms
- Long calibration life
- Two operation keys, simple intuitive programming

APPLICATIONS

- Nuclear power plants
- Environmental survey
- Fire Departments
- Hazardous Material Response Teams
- Police
- EMS
- Military
- Hospitals

DOSERAЕ 2



SPECIFICATIONS Specifications subject to change without notice

Gamma Sensors	CsI (TI) + photodiode (low environment radiation) Energy-compensated PIN diode (level of radiation protection)	Datalog Size	More than 3000 data points
Dose Rate Range	0.01 µSv/h to 10 Sv/h (1 µR/h to 1140 R/h)	Datalog Interval	User programmable, from 30 to 3,600 seconds
Accuracy of Dose Rate	±20% (from 10 µSv/h to 10 Sv/h or from 1.14 mR/h to 1140 R/h) ±30% (from 0.01 µSv/h to 10 µSv/h or 1 µR/h to 1.14 mR/h)	Communication	USB interfaces with computer for data-log download
Dose Range	0 µSv to 10 Sv (0 µR to 1140 R)	Alarms	Loud audible buzzer (85+dB @ 30 cm/12") Highly visible LED lights Built-in vibration alarm
Dose Accuracy	±15%	Alarm Settings	Dose alarm (adjustable from 1.0 µSv to 10 Sv or 114µR to 1140 R) Dose rate alarm (adjustable from 1.0 µSv/h to 10 Sv/h or 114 µR/h to 1140 R/h)
Energy Range	20 keV to 6 MeV for X- and gamma radiations	Temperature	-20° C to 50° C (-4° F to 122° F)
Size	3.3" x 2.2" x 0.4" (85 x 55 x 9.6 mm) without clip	Humidity	0% to 95% (non-condensing)
Weight	1.8 oz. (50g) with battery and clip	IP rating	IP-54
Battery	LIR2450 Rechargeable batteries	Shock Resistance	Passes drop test from 1.5 m (59")
Operating Hours	Up to 200 hours after each charge (one week continuous use)		



t +61 8 6108 0000

e info@gastech.com

w gastech.com

HEAD OFFICE
24 Baretta Road
Wangara WA 6065
Phone: +61 8 6108 0000

SYDNEY OFFICE
21/25 Narabang Way
Belrose NSW 2085
Phone: +61 2 9451 0054

BRISBANE OFFICE
PO Box 349
Cannon Hill Qld 4170
Phone: +61 7 3160 0901