

DOSERAE PRO

Personal Radiation Dosage Monitoring

Rugged Electronic Dosimeter for Personal Radiation Dosage Monitoring.

DoseRAE Pro is a rugged, compact, direct-reading and alarming electronic personal radiation detector and dosimeter. It uses a diode and a scintillation crystal to detect X-ray and gamma radiation, and provides real-time monitoring of personal dose and dose-rate allowing immediate action to reduce personal radiation exposure.

DoseRAE Pro includes a Stay-time countdown timer with warning alarm to allow the user to set a specific time limit when working in a radiation area, limiting the users personal radiation exposure.

- Dosimeter and PRD functionality in a rugged, compact package
- Wide dose rate range and energy range maximizes personal protection
- Fast response time to immediately detect radiation threats
- Ease of use minimizes personnel training & support costs and reduces total cost of ownership

DOSERAE PRO KIT INCLUDES:

- DoseRAE Pro electronic personal dosimeter with belt clip
- Alligator clip
- 1 AA battery
- User manual on CD
- Quick-start user guide
- Calibration and test certificate
- Warranty/registration card

OPTIONAL EQUIPMENT:

- PRR-1 DoseRAE Pro Dosimeter Reader and software

APPLICATIONS

Nuclear power plants
Environmental survey and clean-up
Fire Departments
Hazardous Material Response Teams
Police
EMS
Military
Industrial safety
Waste management
Hospitals and Medical Clinics



KEY FEATURES

- Rugged electronic dosimeter with high sensitivity CsI Scintillator sensor
- Multiple units with reader and software can be used as a dosimetry system
- Continuous LCD digital dose rate readout in Sv/h or R/h
- Continuously accumulated total dose readout in Sv or R
- Prominent visible, audible, and vibration alarms
- User configurable Stay-Time countdown timer and alarms to prevent excessive radiation exposure
- Fast near field communication wireless data transfer
- Long calibration life
- Simple two button operation and programming



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SPECIFICATIONS

Specifications subject to change without notice

Gamma Sensors	CsI (TI) + photodiode (low environment radiation), Energy-compensated PIN diode (level of radiation protection)	Data Storage	3000 points
Dose Rate Range	0.01 μ Sv/h to 9.99 Sv/h (1 μ R/h to 999 R/h)	Datalog Interval	User programmable, from 30 to 3,600 seconds
Accuracy of Dose Rate	$\pm 20\%$ (from 10 μ Sv/h to 9.99 Sv/h or from 1mR/h to 999 R/h), $\pm 30\%$ (from 0.01 μ Sv/h to 10 μ Sv/h or 1 μ R/h to 1 mR/h)	Communication	Near-field Communications to optional PRR-1 Dosimeter Reader for datalog download, dosimeter programming, factory configuration, calibration and firmware upgrade
Dose Range	0.01 μ Sv to 9.99Sv (1 μ R to 999R)	Battery	1 AA alkaline battery, easily accessible with a coin
Dose Accuracy	$\pm 15\%$	Operating Hours	750 hours of continuous use
Energy Range	50 keV to 6 MeV for X- and gamma radiations	Temperature	Operating: -20° to +50°C (-4° to +122°F) Storage: -30° to +70°C (-22° to +158°F)
Alarm Alerts	<ul style="list-style-type: none"> Loud audible buzzer (85+dB @ 30 cm/12") Highly visible LED lights Built-in vibration alarm Each alarm individually enabled/disabled 	Humidity	5 to 95%, non-condensing
Alarm Settings	<ul style="list-style-type: none"> Dose: continuously adjustable: 1 μSv to 9.99 Sv (100 μR to 999 R) Dose Rate: continuously adjustable: 1 μSv/h to 9.99 Sv/h (100 μR/h to 999 R/h) Stay Time: 1 to 999 min. "Chirp" alarm: 1 beep per accumulated dose increment (1 μSv to 9.99Sv or 100μR to 999R) All alarm settings are passcode protected with 3 digit code Low battery alert when 48 hours of life remain 	Shock Resistance	Drop tested from 1.5m (4.9 ft.) onto hard-wood surface
		IP Rating	IP-54
		Display	LCD display with pushbutton back-light, Three-digit floating-point readout
		Direct Readout	Dose and dose rate, autoranging in units of μ Sv, mSv, or Sv (μ R, mR, or R)
		User Interface	2 buttons
		Size	52 x 89 x 22 mm (2" x 3.5" x 0.9") without clip
		Weight	130g (4.6 oz.) with battery and clip
		Attachments	Rugged metal alligator clip and belt clip



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