

Honeywell

RAE
SYSTEMS

DoseRAE Pro

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*

KEY FEATURES

- Rugged electronic dosimeter with high sensitivity CsI Scintillator sensor
- 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
- Long calibration life
- Simple two button operation and programming

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

SPECIFICATIONS

SENSORS	
Gamma Sensors	CsI (TI) + photodiode (low environment radiation) Energy-compensated PIN diode (level of radiation protection)
Dose Rate Range	0.01 μ Sv/h to 9.99 Sv/h (1 μ R/h to 999 R/h)
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)
Dose Range	0.01 μ Sv to 9.99Sv (1 μ R to 999R)
Dose Accuracy	\pm 15%
Energy Range	50 keV to 6 MeV for X- and gamma radiations
ALARMS	
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
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
DATALOGGING AND COMMUNICATIONS	
Data Storage	3000 points
Datalog Interval	User programmable, from 30 to 3,600 seconds
POWER	
Battery	1 AA alkaline battery, easily accessible with a coin
Operating Hours	750 hours of continuous use
OPERATING ENVIRONMENT	
Temperature	Operating: -20° to +50°C (-4° to +122°F) Storage: -30° to +70°C (-22° to +158°F)
Humidity	5 to 95%, non-condensing
Shock Resistance	Drop tested from 1.5m (4.9 ft.) onto hardwood surface
IP Rating	IP-54
PHYSICAL CHARACTERISTICS	
Display	LCD display with pushbutton backlight 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 924 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

Specifications are subject to change

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

ORDERING INFORMATION (MODEL PRM-1300)

Product	Part Number
DoseRAE Pro Dosimeter Kit – US version (display unit: R)	R04-0002-000
DoseRAE Pro Dosimeter Kit – EU version (display unit: Sv)	R04-0001-000

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