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.

**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

- 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
**SENSORS**

- **Gamma Sensors**
  - CsI (TI) + photodiode (low environment radiation)
- **Energy-compensated PIN diode** (level of radiation protection)

**Dose Rate Range**
- 1 uR/h to 999 R/h (0.01 uSv/h to 9.99 Sv/h)

**Dose Rate Accuracy**
- ±20% (from 1 mR/h to 999 R/h or from 10 ìSv/h to 9.99 Sv/h)
- ±30% (from 1 uR/h to 1 mR/h or 0.01 uSv/h to 10 ìSv/h)

**Dose Range**
- 1 uR to 999 R (0.01 uSv to 9.99 Sv)

**Dose Accuracy**
- ±15%

**Energy Range**
- 50 keV to 6 MeV for X- and gamma radiations

**ALARMS**

- **Alarm Alerts**
  - Loud audible buzzer (85+dB @ 30 cm/12”)
  - Highly visible LED lights, Built-in vibration alarm
  - Each alarm individually enabled/disabled

- **Alarm Settings**
  - Dose: continuously adjustable: 1 uSv to 9.99 Sv (100 uR to 999 R)
  - Dose Rate: adjustable: 100 uR/h to 999 R/h (1 uSv/h to 9.99 Sv/h)
  - Stay Time: 1 to 999 min.
  - Chirp alarm: 1 beep per accumulated dose increment (1 uSv to 9.99Sv or 100uR to 999R)
  - All alarm settings are passcode protected with 3 digit code
  - Low battery alert when 48 hours of life remain

**DATALOGGING & COMMUNICATIONS**

- **Data Storage**
  - 3000 points

- **Datalog Interval**
  - User programmable, from 30 to 3,600 seconds

- **Communication**
  - Near-field Communications to optional PRR-1 Dosimeter Reader for datalog download, dosimeter programming, factory configuration, calibration and firmware upgrade

**POWER**

- **Battery**
  - 1 AA alkaline battery, easily accessible with a coin

- **Operating Hours**
  - 750 hours of continuous use

**ENVIRONMENTAL**

- **Temperature**
  - Operating: -4° to +122°F (-20° to +50°C)
  - Storage: -22° to +158°F (-30° to +70°C)

- **Humidity**
  - 5 to 95%, non-condensing

- **Shock Resistance**
  - Drop tested from 4.9 ft. (1.5m) onto hardwood surface

- **IP Rating**
  - IP-54

**PHYSICAL**

- **Display**
  - LCD display with pushbutton backlight
  - Three-digit floating-point readout

- **Direct Readout**
  - Dose and dose rate, autoranging uR, mR, or R (uSv, mSv, or Sv)

- **User Interface**
  - 2 buttons

- **Size**
  - 2” x 3.5” x 0.9” (52 x 89 x 924 mm) without clip

- **Weight**
  - 4.6 oz. (130g) with battery and clip

- **Attachments**
  - Rugged metal alligator clip and belt clip

**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

**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

**ORDERING INFORMATION**

<table>
<thead>
<tr>
<th>Product</th>
<th>Part Number</th>
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<tr>
<td>DoseRAE Pro Dosimeter Kit US version (display unit: R)</td>
<td>R04-0002-000</td>
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<tr>
<td>DoseRAE Pro Dosimeter Kit EU version (display unit: Sv)</td>
<td>R04-0001-000</td>
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**LAURUS Systems**