



RAD-60

Personal Alarm Dosimeter

- enhanced EMI immunity
 - rugged clip fixing
 - improved wear-out and decontamination properties
 - increased sound pressure
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- individual Personal Alarming Dosimeter
 - digital display for integrated dose or alternatively dose rate
 - user selectable alarm levels for both dose and dose rate
 - detector system utilizes high quality energy compensated Si-diode and advanced mathematical dose rate linearization
 - splash-proof mechanical construction, high impact plastic case with strong pocket clip
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RADOS RAD-60 Personal Alarm Dosimeter is a precise radiation measuring instrument for reliable detection and registration of radiation in order to ensure the personal safety of the user. It is suitable for a broad range of everyday radiation monitoring purposes in stand alone conditions.

Applications in:

- Civil Defence
- Customs Operations
- Industrial radiography
- Rescue Operations
- Military Forces
- Nuclear Medicine

Physical Characteristics

- **Radiation detected:**
 - gamma and X-rays
- **Detectors:**
 - energy compensated Si-Diode
- **Measurement range:**
 - dose: 1 μ Sv - 9.99 Sv or 0.1 mrem - 999 rem
 - dose rate: 5 μ Sv/h - 3 Sv/h or 0,5 mrem/h - 300 rem/h
- **Calibration:**
 - better than $\pm 5\%$ (Cs-137, 662 keV at 2 mSv/h), Hp(10)
- **Energy response:**
 - Hp(10), 60 keV - 3 MeV, better than $\pm 25\%$, up to 6 MeV, better than $\pm 35\%$
- **Dose rate linearity:**
 - better than $\pm 15\%$, up to 3 Sv/h (300rem/h)
- **Audible alarms:**
 - seven separate alarms, sound level typically better than 85 dBA at 30 cm
 - integrated dose
 - dose rate
 - dose overflow
 - dose rate overflow at 3 Sv/h or 300 rem/h
 - low battery 1 and 2
 - defect
- **Alarm thresholds*:**
 - six preset values each for integrated dose and dose rate, manually selectable by push-button
- **Push-button functions*:**
 - front panel push-button has the following selectable functions:
 - toggle between dose and dose rate display
 - switch ON/OFF
 - chirp ON/OFF
 - reset integrated dose
 - change alarm thresholds
 - activate battery test

**Note: the active alarm thresholds and configuration of push button functions can be changed by using ADR-1 Reader Head in combination with RADOS PC Software.*

Mechanical characteristics

- **Dimensions:** 78 x 67 x 22 mm
- **Weight:** 80 g including battery

Electrical characteristics

- **Power supply:**
 - one triple A alkaline cell, life typically 1800 h in background field (dose mode)
- **Reader communication:**
 - by infrared through bottom part; by using ADR-1 Reader Head in combination with RADOS PC software

Environmental characteristics

- **Temperature range:**
 - -20 - +50 $^{\circ}$ C operational, humidity up to 90% RH, non condensed

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