



# RAD-60

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## Personal Alarm Dosimeter

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- 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:

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

## Physical Characteristics

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- **Radiation detected:**
  - gamma and X-rays
- **Detectors:**
  - energy compensated Si-Diode
- **Measurement range:**
  - dose: 1  $\mu$ Sv - 9.99 Sv or 0.1 mrem - 999 rem
  - dose rate: 5  $\mu$ 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

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

## Electrical characteristics

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- **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

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

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As standards, specifications and design change from time to time, please ask for confirmation of the information given in this publication.