



## Rados Rad 60 Personal Alarm Dosimeter



The RAD-60 Personal Alarming Dosimeter is a precise radiation measuring instrument for reliable detection 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.

Programmable parameters and the ability to operate in extreme environmental conditions make it a uniquely versatile and practical personal dosimeter. The small, lightweight unit can accompany the user anywhere recording the accumulated dose constantly and reliably all the time. The presettable alarms alert the user when exposure limits are being exceeded

### FEATURES:

- Enhanced EMI immunity
- Improved wear-out and decontamination properties
- 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 with strong pocket clip
- Increased buzzer volume
- Compact and lightweight

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# INDUSTRONIC ENGINEERING & SUPPLIES

## TECHNICAL SPECIFICATIONS

### Radiological Characteristics:

- 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), 55 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)

### Functional Characteristics:

- Alarm thresholds: six preset values each for integrated dose and dose rate, manually selectable by push-button
- Front panel push-button functions:
  - toggle between dose and dose rate display
  - switch ON/OFF
  - chirp ON/OFF
  - reset integrated dose
  - change alarm thresholds
  - activate battery test
- 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

### 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 RA-DOS PC software

### Mechanical Characteristics:

- Dimensions: 78 x 67 x 22 mm (3.07 x 2.63 x 0.86 in)
- Weight: 80 g (2.82 oz) including battery

### Environmental Characteristics:

- Temperature range: -20 - +50°C (-4 - 122°F) operational, humidity up to 90% RH, non condensed

### Applications:

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

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