



RAD-62

Personal System Dosimeter

- enhanced EMI immunity
 - ruggedized clip fixing
 - improved wear-out and decontamination properties
 - increased sound pressure
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- compact and lightweight
 - standard triple A alkaline battery for 1800 h of operation
 - solid state detector
 - compatible with all Rados automatic dose management systems

The RAD-62 system dosimeter is an integrated solid-state dosimeter with full range of functions for use in the RADOS automatic dose management systems. It forms a highly cost effective package with the outstanding performance and is handy and convenient to use even by people wearing protective clothing.

Physical Characteristics

- **Radiation detected:**
 - gamma and X-rays
- **Detectors:**
 - energy compensated Si-Diode
- **Measurement range:**
 - integrated dose: 0.000 - 9.99 Sv or 0.000 - 999 rem
 - dose rate: 0.005 - 3000 mSv/h or 0.001 - 300 rem/h
- **Calibration:**
 - better than $\pm 5\%$ (Cs-137, 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:**
 - eight 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
 - elapsed time
- **Alarm thresholds *:**
 - two freely selectable values for integrated dose and for sequential alarm on
- **Push button functions *:**
 - secondary measuring unit and active alarm level display
 - 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

Environmental characteristics

- **Temperature range:**
 - -20 - +50 °C operational, humidity up to 90% RH, non condensed

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