

Rad-60

Personal Alarming Dosimeter



The RADOS RAD-60 Personal Alarm Dosimeter is a precise and reliable instrument for ensuring the personal safety of the user. Ideally, the RAD-60 is used in everyday radiation monitoring, in stand-alone conditions. If your needs grow for a more sophisticated system, the versatile RAD-60 can also be integrated into an Access Control System. The RAD-60 can be switched into System Mode, for the purpose of tracking Personnel Dose records and generating compliance reports.

The design includes state-of-the-art technology with built-in memory for retrieving dose, even during power-down. It eliminates outside interference from shock and RF. The RAD-60 is easily programmed by the user, has a digital display and operates with a single AAA alkaline battery. See reverse side for technical specifications for the RAD-60.



With the push of a button, you can:

- Turn the unit ON/OFF
- Change the display to read dose or dose rate
- Select from several dose and dose rate alarm levels
- Turn the chirp function ON/OFF
- Reset integrated dose
- Perform a battery test

Reader and Software available
for Dosimeter Configuration-
Calibration-or
Access Control



TECHNICAL SPECIFICATIONS:

Radiological 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), 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 RADOS 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 $^{\circ}$ C (-4 - 122 $^{\circ}$ F) operational, humidity up to 90% RH, non condensed

Applications

- Homeland Security, First Response, Haz Mat, Rescue Operations
- Customs Operations, Interdiction, Armed forces
- Industrial radiography, Nuclear Medicine,

