



RAD-60 Personal Electronic Alarming Dosimeter

RADOS RAD-60 Personal Alarming 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.

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 case with strong pocket clip



health physics

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Featuring:

RADOS

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

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



MIRION Health Physics
TECHNOLOGIES Division

www.mirion-hp.com
129771C

5000 Highlands Parkway
Suite 150
Smyrna Georgia 30082
USA
T +1.770.432.2744
F +1.770.432.9179

BP 1
F-13113 Lamanon
France
T +33 (0) 4 90 59 59 59
F +33 (0) 4 90 59 55 18

P.O. Box 506
FI-20101 Turku
Finland
T +358 2 4684 600
F +358 2 4684 601

Ruhrstrasse 49
D-22761 Hamburg
Germany
T +49 40 85193 0
F +49 40 85193 256

