



MIRION
TECHNOLOGIES



Radiation. **Safety.**

RAD-60/62

Electronic Dosimeters

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Nuclear
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OVERVIEW

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.

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

KEY FEATURES

- enhanced EMI immunity
- ruggedized clip fixing
- improved wear-out and decontamination properties
- increased buzzer volume
- compact and lightweight
- standard AAA alkaline battery for 1800 h of operation
- solid state detector
- digital display for integrated dose or alternatively dose rate
- user selectable alarm levels for both dose and dose rate

Health Physics

PHYSICAL 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 accuracy:
 - 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)
 - better than $\pm 10\%$ for 0.005 mSv/h - 1 Sv/h (1mrem/h-100 rem/h)
- Audible alarms:
 - eight separate alarms, sound level typically better than 85 dBA at 30 cm
 - integrated dose
 - dose rate
 - dose overflow
 - dose rate over flow at 3 Sv/h or 300 rem/h
 - low battery 1 and 2
 - defect
- Alarm thresholds*:
 - RAD-60:**
 - seven preset values each for integrated dose and dose rate, manually selectable by push-button
 - RAD-62:**
 - no freely selectable values for integrated dose and one for dose rate
- Push-button functions*:
 - RAD-60:**
 - 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
 - RAD-62:**
 - toggle between dose and dose rate display
 - display alarm level

**) Note RAD-60: the active alarm thresholds and configuration of push button functions of RAD-60 can be changed by using ADR-1 Reader Head in combination with Mirion PC Software.*

MECHANICAL CHARACTERISTICS

- Dimensions: 78 x 67 x 22 mm (3.1 x 2.6 x 0.8 in)
- Weight: 80 g (2.8 oz) including battery

ENVIRONMENTAL CHARACTERISTICS

- Temperature range:
 - RAD-60:**
 - 20 °C to +50 °C (-4 °F to 122 °F) operational, humidity up to 90% RH, non condensed
 - RAD-62:**
 - from -20 °C to +50 °C (-4 °F to 122 °F) operational
 - from -20 °C to +70 °C (-4 °F to 158 °F) storage
 - humidity up to 90 % RH, non-condensed

ELECTRICAL CHARACTERISTICS

- Power supply:
 - one AAA 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 Mirion PC software

 **+982165565901**

 **+982144584619**

 **+989034119385**

 **Tehran, Tehransar**

> CHINA - SHANGHAI

T: +86 21 6180 6920 | E: info-cn@mirion.com

> FINLAND - TURKU

T: +358 2 4684 600 | E: info-fi@mirion.com

> FRANCE - LAMANON

T: +33 (0) 90 595959 | E: info-fr@mirion.com

> GERMANY - HAMBURG

T: +49 40 85193 0 | E: info-de@mirion.com

> USA - SMYRNA, GEORGIA

T: +1 770 432 2744 | E: info-us@mirion.com

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