

# RAD-60

## Personal Alarming Dosimeter



### *With the push of a button...*

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

The RAD-60 self-reading alarming electronic dosimeter is a precise and robust radiation monitoring instrument for the accurate detection and tracking of personal radiation exposure. The RAD-60 is the ideal stand-alone solution for everyday radiation exposure monitoring and control ensuring the personal safety of the user. If requirements change and there is a need 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 to allow for tracking and management of personnel dose records and the generation of exposure and compliance reports when integrated with an access control or dose management software program .

The proven design is comprised of mature technology that includes integrated memory for retrieving dose and exposure events, even during power -down. Outside interference from shock and RF is eliminated and the durable case is easily cleaned and decontaminated if necessary. The RAD -60 boasts a straightforward and simple user interface making it the most user -friendly device available. Dose and dose rate alarms and thresholds are easily programmed by even the most inexperienced user. The RAD-60 also features an easy to read digital display and operates with a single AAA alkaline battery.



### FEATURES

- Digital display for integrated dose and dose rate
- User selectable alarm levels for dose and dose rate
- Energy compensated Si diode
- Advanced mathematical dose rate linearization
- Splash-proof mechanical construction
- High impact plastic case
- Enhanced EMI immunity
- Standard AAA battery for 1800 h of operation



ADR-1 Reader and Software available for device configuration and calibration

# RAD-60

## SPECIFICATIONS

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### Radiological Characteristics

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- Radiation detected:
    - gamma and X-rays
  - Detectors:
    - energy compensated si-Diode
  - Measurement range:
    - dose: 0.1 mRem - 999 Rem (1  $\mu$ Sv - 9.99 Sv)
    - dose rate: 0.5 mRem/h - 300 Rem/h (5  $\mu$ Sv/h - 3 Sv/h)
  - Calibration:
    - better than  $\pm 5\%$  cs-137, 662 keV at 200 mR/h (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 300 em/h (3 Sv/h)
    - better than  $\pm 10\%$ , for 0.5 mRem/h – 100 r/h (0.005 mSv/h - 1 Sv)
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### Functional Characteristics

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- Alarm thresholds:
    - seven 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
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### Electrical Characteristics

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- 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
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### Mechanical Characteristics

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

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

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- Homeland Security, Rescue Operations
- Hazmat Teams
- Customs Operations, Military
- Industrial Radiography, Nuclear Medicine

