

Rad-60 FAQ



What type of radiation is detected by the RADOS RAD-60?

RADOS RAD-60 Dosimeters measure dose and dose rate from X-ray and gamma radiation. The units measure and read out in units of mrem and rem for dose and mrem/hr and rem/hr for dose rate.

Are the RAD-60 Dosimeters capable of alarming based on dose, dose rate, EPD failure, and low battery?

The RADOS RAD-60 dosimeters have user configurable alarms for dose and dose rate and a visual and audible alarm for dose, dose rate, dosimeter failure and low battery indication. The RADOS dosimeter alarm LED will flash in the event of an alarm and the display will indicate the specifics of the alarm condition.

What type of battery is used and how long will the RAD-60 Dosimeter operate on a single battery?

RADOS dosimeters use a single standard AAA alkaline battery. The dosimeters are designed to have a typical battery life of two (2) months in dose mode. In normal operation (8 hours ON / 16 hours OFF) the typical battery life is four (4) months in dose mode. The use of standard AAA batteries reduces the **maintenance cost of the RAD-60 dosimeter** to a fraction of the cost of competing products.

Are the RAD-60 Dosimeters waterproof and resistant to shock and vibration?

The RAD-60 dosimeters are designed with high impact plastic, resulting in a splash-proof and dust-proof case that is easy to decontaminate. The dosimeters can be submerged and will continue to function provided the necessary engineering controls are implemented. RADOS dosimeters have been successfully used in underwater diving applications at various nuclear plants. For further protection from moisture, the unit can be placed in a sealed (ziplock type) clear plastic bag.

RAD-60 dosimeters are able to withstand a drop of 1.5 meters onto a concrete surface without affecting its operability or performance.

Vibration - RAD-60 dosimeters have been tested for 2 g acceleration applied for a 15-minute sweep in three planes through a frequency range of 10 - 33 Hz with no change in the dosimeter readings.

Do the RAD-60 Dosimeters have a device to attach it to personnel and/or personnel clothing?

All of the RADOS Dosimeters have a clip that is designed with a strong grip. In addition, there is an optional Dosimeter Holder available that adds an extra layer of safety to prevent breakage of the Dosimeter.

Do the RAD-60 Dosimeters react to RF interference to radios and cell phones?

The RAD-60 Model Dosimeters have enhanced shielding and resistance to RF. A Type Test Report is available by request.

Do the RAD-60 Dosimeters have a non-volatile memory for calibration data, dose and dose rate?

The integrated dose value will not change upon replacement of the battery after a power loss or interruption. In addition, the alarm levels and other programmable information, including maximum dose rate data and user unique ID will be available. The information is stored and maintained in the non-volatile memory, which is powered by lithium back up battery, and is protected from loss of data from main battery failure. The alkaline AAA battery can be removed from the dosimeter and will not affect the non-volatile memory. Clearing or resetting the memory is possible only by intentional action of an authorized operator as specified in ANSI N13.27.

Do the Dosimeters come with a calibration certificate and what is the recommended calibration interval?

The RADOS Dosimeters come with a current calibration certificate. Calibration is recommended on a yearly basis. LAURUS offers calibration service, please call for pricing. In addition there is an ADR-1/60 Configuration Kit available that can be used to perform in-house calibration if desired.

Can the RADOS Dosimeters be configured with User ID's and settings other than those that are pre-set at the factory?

The RADOS RAD-60 Dosimeters come with 6 preset alarms to choose from for both dose and dose rate settings. If the user requires other settings, it can be requested prior to shipping or, an ADR-1/60 Configuration Kit can be purchased to configure alarm settings-assign ID Numbers and Names-Calibrate the unit-enable or disable chirper functions, on/off buttons and several other options including timer functions.

