

The versatile RAMR-330 is an extremely sensitive and very wide range gamma survey meter designed to measure dose rates from 1 nSv/h to 1 Sv/h (0.1 uR/h to 100 R/h). It is designed for highly stable and accurate measurements of dose rate and integrated dose rate gamma radiation.

Two versions of the RAM R-330 meter are available, one for mR/h units and the other for  $\mu$ Sv/h units.

## **Functions**

- Automatic internal monitor and detector test
- Automatic switching between external and internal detectors
- Dose rate and accumulated dose (mR and μSv)
- Detector failure, overflow and low battery alarms
- User selectable threshold levels
- Piezo-electric audio element indicates count rate, failure and exceeded thresholds.
- Indicators in case of reading over thresholds alarm value
- Wide range of measurement up to 100 Sv/h
- Dead time correction

## **FEATURES**

- IP-67 rated
- One hand operation
- Backlight
- Automatic internal diagnostics
- Portable, lightweight and compact
- Large, easy to read, 7 segment, 4 digit LCD display panel
- Ergonomically designed to function using only 4 push-buttons
- Fast time responses while keeping the reading fluctuations minimal.
- Low current consumption, more than 100 hours of continuous operation with a single 9V battery.
- Passed sub-pressures, dust, shock, vibration, drop and immersion tests. Meets MIL-STD 810, MIL-STD 461, ICRP60, ICRU39 and CEI 846 standards.
- CE certified.



## **Technical Data**

Display range

The firmware of the instrument translates the counts from the external detector into units of dose rate according to sensitivity measured against a <sup>137</sup>Cs source.

Detectors External: Scintillator, diameter 3", height 3", density 1.032 g/cm<sup>3</sup>

Internal: GM Tubes ZP1201 and ZP-1313 0.01 nSv/h to 1 Sv/h (0.01 uR/h to 99.9 R/h)

Measuring range 1 nSv/h to 1 Sv/h (0.1 uR/h to 100 R/h) Sensitivity (137Cs) From 2350 cpm/uR/h

Accuracy ±10% of reading within the measured range

Energy range 23 KeV to 7 MeV Energy dependence ± 30% related to <sup>137</sup>Cs

Angular dependence Less than  $\pm 40\%$  for  $\pm 45^{\circ}$  of preferred direction.

Thresholds User selectable

Display LCD 7 segments including backlight showing :
Audio Internally mounted piezo-electric element

Measuring Units mR/h and mR or μSv/h and nSv

Controls ON/OFF push-button MODE push-button

SPEAKER push-button
STORE push-button

Power source 1 standard 9 volt battery supplying > 100 hours of operation.

Automatic battery check under full load

Temperature range **Operation**:  $-10^{\circ}$ C to  $+50^{\circ}$ C ( $15^{\circ}$ F  $-122^{\circ}$ F)

**Storage**  $-20^{\circ}\text{C to} + 60^{\circ}\text{C } (-5^{\circ}\text{F to } 140^{\circ}\text{F})$ 

Humidity range 40% to 95% RH (non-condensing)

Casing Metal anodized Aluminum

Dimensions Meter: 134 mm (L) x 80 mm (B) x 35 mm (W)

Detector: 370 mm (L) x 100 mm

Weight 2.30 Kg's

Perfection In

DetectIon

Rotem Model# BAK-2073 (μSv/h) BAK-2074 (mR/h)

ROTEM INDUSTRIES reserves the right to change specifications without advance notice



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