

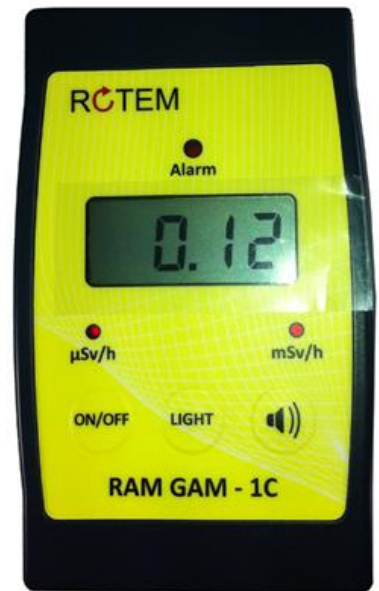
RAM GAM-1C

Portable Gamma Survey Meter

The versatile The RAM GAM-1C gamma survey meter, is a state-of-the-art microprocessor-based instrument. It is designed for highly stable and accurate measurements of dose rate and integrated dose rate gamma radiation. The RAM GAM-1C covers a measuring range of $0.1\mu\text{Sv/h}$ to 100mSv/h (0.01mR/h to 10R/h). Two versions of the RAM GAM-1C meter are available, one for mR/h units and the other for $\mu\text{Sv/h}$ units.

Functions

- Automatic internal monitor and detector test
- 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.
- LED indicator turn on in case of reading over thresholds alarm value
- 2 LED's indicators for indicate $\mu\text{Sv/h}$ or mSv/h reading
- Wide range of measurement - up to 100mSv/h
- Dead time correction



FEATURES

- IP-67 rated
- One hand operation
- Backlight
- Two distinctive LED's showing measuring units
- Automatic internal diagnostics
- Portable, lightweight and compact
- Large, easy to read, 7 segment, 4 digit LCD display panel
- Ergonomically designed to function using only 3 push-buttons
- Fast time responses while keeping the reading fluctuations minimal.

Technical Data

Detector	Energy compensated GM tube (VacuTec70003 or equivalent)
Display range	0.01 μ Sv/h to 100 mSv/h (0.001 mR/h to 10 R/h)
Measuring range	0.1 μ Sv/h to 100 mSv/h (0.01 mR/h to 10 R/h)
Sensitivity (^{137}Cs)	1.7 CPS/ μ Sv/h (17 CPS/mR/h)
Accuracy	$\pm 10\%$ of reading within the measured range
Energy range	40 KeV to 1.3 MeV
Energy dependence	$\pm 20\%$ related to ^{137}Cs
Angular dependence	Less than $\pm 20\%$ for $\pm 45^\circ$ of preferred direction.
Thresholds	User selectable, 11 set points
Display	LCD 7 segments including backlight showing : <i>4 digits for accurate and easy readout</i> <i>detector failure</i> <i>Low battery indication</i> <i>Overflow indication</i> <i>Threshold indication</i> <i>3 LED Indicators for Alarm, μSv/h and mSv/h</i>
Audio	Internally mounted piezo-electric element
Measuring Units	mR/h and mR or μ Sv/h and μ Sv
Controls	On/OFF push-button LIGHT push-button SPEAKER push-button
Power source	2 standard 1.5 volt batteries supplying > 250 hours of operation. Automatic battery check under full load
Temperature range	Operation: -10°C to $+50^\circ\text{C}$ (15°F – 122°F) Storage -20°C to $+60^\circ\text{C}$ (-5°F to 140°F)
Humidity range	40% to 95% RH (non-condensing)
Casing	Metal anodized Aluminum
Dimensions	13cm X 7.2 cm X 3.4 cm (5.12" X 2.83" x 1.34")
Weight	280 gr. (0.62 lb) incl. batteries

Perfection
In
Detection

Rotem Model# BAK-1767 (μ Sv/h)
BAK-1768 (mR/h)

ROTEM INDUSTRIES reserves the right to change specifications without advance notice

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