

RAM GAM -1 Mark II

Gamma Radiation Survey Meter



The versatile RAM GAM-1 monitor is a state of the art, compact, portable, lightweight highly sensitive meter, designed to maintain the highest safety standards in Nuclear Power Plants, Nuclear Research Centers, Nuclear materials Transporting facilities, Nuclear Medical, Radiochemistry, Radiography and Health Physics centers. The intrinsic CMOS microprocessor facilitates smooth software control and allows for easy upgrading of the instrument's capacity for measuring a wide range of measurement values.

Display Range

Dose rate: 0.1 μ Sv/h to 9,999 μ Sv/h (0.01 mR/h to 999 mR/h)

Functions

- Automatic internal monitor and detector test
- Dose rate and accumulated dose (mR and μ Sv)
- Detector failure, overflow and low battery alarms
- Set up thresholds
- Piezo-electric audio element indicates count rate, failure and exceeded thresholds.
- LED indicator flash with each incident radiation pulse
- Dead time correction
- Optional external DC power or charger

FEATURES

- One hand operation
- Stand up base holder (optional)
- Automatic internal diagnostics
- Portable, lightweight and compact
- Large, easy to read, 7- segment, 4 digit LCD display panel
- Backlight
- Ergonomically designed to function using only 3 push-buttons
- Fast time responses while keeping the reading fluctuations at a minimum.

Technical Data

Detector	Energy compensated GM tube (ZP1201 or equivalent)
Measuring range	0.5 μ Sv/h to 9999 μ Sv/h (0.05 mR/h to 999 mR/h)
Display range	<i>Dose rate:</i> 0.1 μ Sv/h to 9,999 μ Sv/h (0.01 mR/h to 999 mR/h) <i>Accumulated Dose:</i> 0.01 mR to 999 R
Sensitivity (¹³⁷ Cs)	17 cps/mR/h
Accuracy	\pm 15% of reading within the measured range
Energy range	50 KeV to 1.3 MeV
Energy dependence	\pm 20% related to ¹³⁷ Cs
Angular dependence	Less than \pm 20% for \pm 45 ^o of preferred direction.
Display	<i>LCD readout showing :</i> 4 digits for accurate and easy readout detector failure low battery overflow Threshold LED Indicator flash for count rate
Audio	Internally mounted piezo-electric element
Measuring Units	μ Sv/h and μ Sv or mR/h and mR
Power source	One 9 volt cell battery supplying above 50 hours of continuous operation. Automatic battery check under full load
Temperature range	Operation: -10 °C to +50 °C (15°F - 122°F) Storage -20 °C to +60 °C (-5°F to 140°F)
Humidity range	- 40% to 95% RH (non-condensing)
Casing	Aluminum Casing
Dimensions	13cm X 7.2 cm X 3.4 cm (5.12" X 2.83" x 1.34")
Weight	280 gr (0.62 lb)

Ordering information

RAM GAM-1 Mark II (uSv/h)	BAK-1752
RAM GAM-1 Mark II (mR/h)	BAK-1750

The RAM GAM-1 Monitor is available with the following peripherals:

Leather Case and Hanging Belt	BAK-1760
Power Supply 9VDC 0.5 A	EGM-0135
Plastic Suitcase	BAK-1370

ROTEM INDUSTRIES reserves the right to change specifications without advance notice

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