

Gamma Radiation Survey Meter

0.5 $\mu\text{Sv/h}$ to 40 mSv/h

Radiation Detection Division

Health Physics

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.



Functions

- Automatic internal monitor and detector test
- Dose rate and accumulated dose (mR and μSv)
- 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

Measuring Range	0.5 μ Sv/h to 40 mSv/h (0.05 mR/h to 4,000 mR/h)
Display Range	0.1 μ Sv/h to 40,000 μ Sv/h (0.01 mR/h to 4,000 mR/h) Accumulated Dose: 0.01 μ Sv/h to 9999 μ Sv/h 0.01 mR to 999 R
Detector	Energy compensated GM tube (ZP1201 or equivalent)
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 $\pm 45^\circ$ of preferred direction.
Display	LCD readout showing : 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	mSv/h and mSv or mR/h and mR
Power Source	One 9 volt cell battery supplying above 50 hours of operation Automatic battery check under full load
Temperature Range	Operation: -10°C to $+50^\circ\text{C}$ (15°F to 122°F) Storage -20°C to $+60^\circ\text{C}$ (-5°F to 140°F)
Humidity Range	- 40% to 95% RH (non-condensing)
Casing	Aluminum Casing
Dimensions	13 cm 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 (μ Sv/h and mR/h) BAK-1752

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

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