

# RAM GAM-1 Ruggedized Meter

## Portable Gamma Radiation Survey Meter

The **RAM GAM-1** is a state-of-the-art microprocessor based meter. This rugged version was developed to be used in extreme environments offering a dust proof, water resistant casing. It offers optimal performance and is ideal for maintaining highest safety standards in:

Nuclear Power Plants  
Nuclear Research Centers  
Nuclear Materials Transport  
Nuclear Medicine  
Radiochemistry  
Radiography  
Health Physics

The **RAM GAM-1** is an easy-to-use, compact, portable, lightweight, one-hand-operation instrument. Only three push buttons are required for operation.

### Features

- Dose rate and accumulated dose (Sv/hr and Sv or mR/h and mR)
- Four digits display – for accurate and clear readout
- Audible dose rate indication.
- LED indicator – flashes with each incident radiation pulse
- Automatic self-diagnostics – for high reliability
- Smart software – for fast time response, while keeping the reading fluctuations at a minimum
- Alarms of detector failure, low battery and detector overflow
- Dead time correction
- User selectable thresholds
- Optional external DC power or charger
- Optional Belt clip
- CE marked



## Technical Data

Display	LCD readout showing: <ul style="list-style-type: none"><li>● Four digits for accurate and easy readout</li><li>● Detector failure</li><li>● Low battery</li><li>● Overflow</li><li>● Threshold</li></ul>
LED	Count rate indication
Audio	Internally mounted piezoelectric element
Measuring units	$\mu\text{Sv/h}$ and $\mu\text{Sv}$ or $\text{mR/h}$ and $\text{mR}$
Controls	ON/OFF push-button RESET push-button SPEAKER push-button
Power source	One 9-Volt battery 50 hours minimum continuous operation, using an alkaline battery (speaker off) Automatic battery check under full load
Detector	Energy compensated GM tube (ZP1201 or ZP1202 for ambient equivalent dose rate)
Measuring range	0.5 $\mu\text{Sv/h}$ to 9999 $\mu\text{Sv/h}$ (0.05 $\text{mR/h}$ to 999 $\text{mR/h}$ )
Display range	<b>Dose rate</b> 0.1 $\mu\text{Sv/h}$ to 9999 $\mu\text{Sv/h}$ (0.01 $\text{mR/h}$ to 999 $\text{mR/h}$ ) <b>Accumulated dose</b> 0.1 $\mu\text{Sv}$ to 999 $\text{K}\mu\text{Sv}$ (0.01 $\text{mR}$ to 999 $\text{K}\text{mR}$ )
Sensitivity ( $^{137}\text{Cs}$ )	17 cps/ $\text{mR/h}$
Accuracy	$\pm 10\%$ of reading within the measuring range
Energy dependence	$\pm 20\%$ related to $^{137}\text{Cs}$ for energy range: 50 keV to 2.0 MeV
Angular dependence	Less than $\pm 20\%$ for $\pm 45^\circ$ of preferred direction
Temperature range	<b>Operation:</b> $-10^\circ\text{C}$ to $+50^\circ\text{C}$ ( $15^\circ\text{F}$ to $122^\circ\text{F}$ ) <b>Storage:</b> $-20^\circ\text{C}$ to $+60^\circ\text{C}$ ( $-5^\circ\text{F}$ to $140^\circ\text{F}$ )
Humidity range	10% to 95% RH (non condensing)
Casing:	High impact resistance plastic
Dimensions	13 cm x 7.2 cm x 3.4 cm (5.12" x 2.83" x 1.34")
Weight	402 g (0.89 lb)

### Ordering #

RAM GAM-1 <mR/h>	4-0029-01
RAM GAM-1 <Sv/h>	4-0029-02
RAM GAM-1 holder	A-0100
RAM GAM-1 carrying bag	A-0150
Check source ( $5\mu\text{Ci } ^{137}\text{Cs}$ )	A-0080
Belt hanger	A-0190

ROTEM INDUSTRIES reserves the right to change specifications without advance notice

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