

RAM R-200 Environmental Radiation Meter

Highly Sensitive, robust Survey Meter

The RAM R-200 EN is a combination of a highly sensitive NaI(Tl) detector and Smart Meter packaged in a rugged, waterproof casing.

Designed to be used as a survey meter for Nuclear Power Plants and other facilities with a measuring range of between 10 nSv/h to 1 Sv/h (1 uR/h to 100 R/h)

This highly stable and accurate instrument is used for the measurement of dose rates and integrated dose of gamma, x-ray and gamma radiation, this instrument provides extremely accurate readings over a very wide range.

The RAM R-200 EN's auto-ranging meter utilizes a combination display consisting of a smoothed digital display for minimum fluctuations, and a two-decade logarithmic analog bar graph for fast response.



FEATURES

- Ruggedized, portable, compact, lightweight instrument.
- Simple operation: only four push buttons.
- Built-in RS-232 communication - three channels.
- Large, easy to read, digital and analog customized LCD.
- Display backlight offers bright illumination for use in dark areas.
- 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 compliant.

APPLICATIONS

- Nuclear Power Plant surveying instrument
- NDT surveying instrument for safety
- Emergency Response Teams

Specifications

Counting tubes*	Nal(Tl), ZP-1201, ZP-1313
Measuring range	0.1 μ Sv/h to 1 Sv/h 10 μ R/h to 100 R/h
Energy range	50 keV to 6 MeV
Sensitivity	22,000 cps/mR/h (PM-11) 17 cps/mR.h ⁻¹ (ZP1201) 1.4 cps/mR.h ⁻¹ (ZP1313)
Accuracy	\pm 10 % of reading, within the measuring range
Data logging	999 data records
Display	DigiLog (3 digits and 2 decades of analog bar-graph) Four Push-buttons: On/off, Light, Speaker, Mode
Measuring units	Sv/h, Sv, cpm, counts (R/h, R, cps - optional)
Power source	One 9-Volt alkaline cell 100 hours of continuous operation
Temperature range	Operation: -30°C to + 60°C (-22°F to 140°F) Storage: -30°C to + 70°C (-22°F to 158°F)
Humidity range	10% to 95% RH (non condensing)
Casing	Seawater resistant aluminum alloy, shock resistant
Dimensions	Length: 134 mm (5.3") Width: 80 mm (3.2") Height: 35 mm (1.4")
Weight	480 gr (1.06 lbs) (incl. cell)
Inputs / Outputs	FISHER connector type, DEE 103 A057

*For ambient dose equivalent mode the meter may be ordered with ZP1202 and ZP1314.

The RP-11 detector will measure radiation until 27 uSv/h. Above this level, the RAM R-200 will take over the measurement.



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Our Radiation Detection Department, with over 30 years experience, specializes in the development, production and marketing of instrumentation and systems for the Homeland Security, Nuclear Power Plant and Nuclear Medicine Industries.

Perfection
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