RAM-55 Electronics

Wide Range Gamma Area Monitor

Model: RAM-55

RAM-55 Side View with Probe

Features

- Gamma Detection
- Real-Time Monitoring
- Microprocessor Based Data Measurement and Display
- Wall Mount
- Single Channel
- P-55 Consists of Dual GM Detectors: (1) Low Range (1) High Range in One Unit
- Local Monitoring and Display
- User Settable – Isolated Alarm
- USB
- Data Archive and Retrieval
- **Optional:** Ethernet
- **Optional:** Internal Stand-By Battery Power
- **Optional:** Remote Alarm

Application

Area monitors for use in and around nuclear reactors, hot cells, irradiators and other facilities handling radioactive materials.

Description

- The RAM-55 incorporates a digital alarm ratemeter, power supply, alarm, amplifier, choice of rack or case, and 2 reliable GM detectors.
- GM detectors and circuit design prevent the system readings from falling even in very high fields.
- Front panel controls allow the alarm set point to be displayed.
- Alarm activation produces flashing red light on front panel.
- **Optional:** beacon, piercing intermittent 2000Hz tone,
- **Optional:** relay is also closed (or opened) relay for activation of remote alarms.
- **Optional:** Internal stand-by battery power.
- **Optional:** remote alarm

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Specifications

Range: 6-decade dynamic range 0.015 mR/hr to 10,000 mR/hr

Detector: P-55 probe is 7" long and ½" in diameter. It contains 2 GM tubes for high and low range measurements of the ambient gamma radiation field. The low range GM tube is near the tip, and the high range GM tube is near the cable connection. Supplied with 15 ft. cable.

Energy Dependence: 20% from 100KeV to 1.2 MeV.

Temperature: Operating range between 32° F–120° F (0° C and 50° C) 0-95% humidity noncondensing.

Weight and Dimensions:

Size: 15" x 11" x 4" (38 cm x 27.9 cm x 10 cm)

Weight: 9 lbs (4 kg)

Electronics:

Engineering Units: User programmable.

Data Output: USB, Optional: Ethernet

Front Panel Controls: Alarm, Power On-Off, Mute, Lights

Alarms: Alarm level is adjustable over entire range. Alarm indicators include, flashing red light, and beeper. **Optional:** beacon

Power: 120 V, 60 Hz.

Optional: Battery Backup and Charger
Bench top.