

RAD IQ™ AM100G

Area Radiation Monitor



“Reliable, Scalable, 24/7 Monitoring”

The RAD IQ™ AM100G is part of the Nucare RAD IQ™ area monitor series, designed for continuous gamma radiation monitoring using a highly reliable GM sensor. Featuring a large, easy-to-read LCD panel, it delivers real-time dose rate information in $\mu\text{Sv/h}$ or mR/h , making it ideal for use in labs, hospitals, isotope production facilities, and other radiation-sensitive environments.

Engineered for flexible wall or flush-mounted installation, the AM100G integrates seamlessly into Ethernet-based RAD IQ™ AM networks. It supports remote access, centralized monitoring, and automatic alarm notification, enabling scalable deployment across complex facilities.

Applications

- Isolated ward
- Hot laboratory
- Isotope production facility
- Radioactive waste area monitoring
- Environmental radiation monitoring
- Nuclear power plant
- Warehouse monitoring
- Homeland security

Key features

- Large, High Contrast LCD Display
- Energy compensated GM tube
- Convenient form factor
- Overcharge protected battery: >12h (Li ion)
- Local alphanumeric keyboard



Options

- Command Center software
- Strobe/horn alarm: 3 way LED with speaker
- Alarm Relay output
- NEMA 4 weatherproof enclosure
- Hi speed USB video
- PoE & Ethernet
- Alarm Relay output



USB video



3-way LED w/
speaker

Detector	Energy compensated Geiger-Mueller Tube	LCD display)	Graphic LCD (240×128 pixels) LCD size(140(W)×100(H)mm)
Range	0.1 mR/h to 1 R/h (AM100G-1) 1.0 mR/h to 10 R/h (AM100G-2)	Linearity	10% of true value
Power	DC Power (standard) PoE (option)	Display unit	uR/hr, mR/hr, R/hr, uSv/h, mSv/hr, Sv/hr, CPS, CPM
Battery Backup	>12 hours, Li-ion (overcharge protected)	Alarm	3 level (normal, low, or high)
Weight	2kg (4.4lb)	Dimension	230(W) × 60(D) × 180(H)mm
Operating Temperature	-15°C (5°F) ~ 50°C (122°F)	Relay output	Din connector (option)
Strobe & Horn Kit	3-way LED w/ speaker (option)	Communication	RJ-45 Ethernet (option)

Application Example

The AM100G units can be seamlessly integrated into a centralized monitoring network using RAD IQ™ Command software. This system provides a graphical interface for real-time status visualization, remote detector control, alarm management, and historical data archiving—all from a single control center. It enables efficient and scalable radiation safety management across complex facilities.

