ARM -1000
Dynamic Area Radiation Monitor

FEATURES & BENEFITS

Integrated Wireless Capability

Real-time monitoring of gamma dose rates from remote locations.

Wireless Encryption

Date is transmitted using integrated data encryption that prevents unauthorized access to data.

Wireless Communication Options

- 900 MHz Xtend
- 2.4 Ghz 802.15.4
- Wifi
- Ethernet

Software Compatibility

The ARM-1000 is compatible with most mainstream Remote Monitoring systems.

- Variable external detector voltage settings
  Universal Compatibility with 3rd party detectors
  o Thermo DA-Probes
  o Mirion AMP100
  o Model 133-Series detectors
- Internal GM-Detector (5 decade Range)
- Integrated wireless communication
- Configurable High Visibility LED display: 2-Line, 16 digit Display
- Multiple power sources: 110v - Power over Ethernet - USB)
- Internal rechargeable Li-Ion battery: 6-8 Hours of Battery life
- Dual alarm set points: (Low -warning, High-Alarm)
- Dual Alarm indications : 105 dB(A) siren and High Intensity LED Strobe
- Control of external devices:
  o 4-12mA relay signal
  o 3-Internal Contacts (Dry or Live)
- Modular Design: add and remove features as needed
- IP65 Rated
- Drive External Check Sources

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The ARM-1000 is the most versatile area radiation monitor on the market. In addition to the internal GM-detector for local area monitoring, it has an option for external detector monitoring. The ARM-1000 has universal compatibility to existing 3rd party detectors due to its variable external detector voltage settings and is able to drive GMs, scintillators, and proportional counter detector probes. The high-visibility LED display can be configured to show gamma radiation levels, CPMs or any other unit of measure. The ARM-1000 can even be integrated with monitoring devices such as pump vibration monitors or continuous air monitors for data collection and display. With an internal battery of 6-8 hours, the ARM-1000 can be deployed in the field and can be monitored remotely via one of three wireless telemetry options: Wifi, 2.4Ghz Radio, 900 Mhz Radio or Ethernet.

- **DE-9: RS-232 /RS-485**
- **RJ-45: Ethernet with Power Over Ethernet (POE) support**
- **USB: Configuration Port**
- **Isolated AC Power Inlet**
- **2x Cable Glands (Relays/DC Power/External Detector)**

Specifications

Radiation Detection	Internal Detector (optional)	Compensated GM-tube
	Detection Ranges	0.1mR/hr -4 R/hr
		1 mrem/h - 100 R/h
Power Requirements	AC Power	120-240 VAC
	DC Power Input	12-24 VDC
	Power Over Ethernet	IEEE 802.3at / 25.5W
General	Dimensions - excl. antenna (H x W x L)	31.0 x 17.5 x 12.9 cm
	Weight (excl. batteries)	T.B.D.
	Operating Temperature	-20°C to 50° C
Display	Type	16 dot matrix digits (LED)
External Connections	USB	USB power/configuration port
	DE-9	RS-232 / RS-485
	RJ-45	Ethernet / PoE
900Mhz Radio (XT model suffix)	Range (indoor/urban RF line of sight):	Up to 3000 feet (900 m)
	Range (outdoor/ RF line of sight):	Up to 1 mile (1.6 km)
	Transmit Power Output	Up to 500 mW
	Frequency Range	902 MHz– 928 MHz
	Receiver Sensitivity	-110 dBm (9600 baud)
	FCC Part 15.247	OUR-9XTEND
	Industry Canada (IC)	4214A-9XTEND

Ordering Information

Model	Description
ARM-1000	GM-Tube Area Monitor
ARM-1000 DA	External Detector Monitor
ARM-1000 XT	GM-Tube Area Monitor 900MHz XTend
ARM-1000 DNT	GM-Tube Area Monitor 2.4GHz DNT
ARM-1000 W	GM-Tube Area Monitor WiFi / Ethernet / PoE

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