



# ARM-1000

## Area Radiation Monitor

The ARM-1000 is a multi-use Area Radiation Monitor. It contains an internal Geiger Mueller (GM) dose rate detector, and contains an external detector port that supports a variety of Charthouse and 3 party supplied radiation detectors. A variety of Remote Telemetry communication options exist, including 900 MHz/2.4 GHz, Wi-Fi, and ethernet platforms.

### VALUE PROPOSITION

#### DETECTOR VERSATILITY

- Internal gamma detector (GM)
- External gamma beta and neutron detectors
- Technology replacement upgrade for Thermo Scientific™ RMS-3 CoDA and DA 1-6 and 1-8 Detectors 1X's

#### WIRELESS TRANSMISSION

- 900MHz and 2.4GHz mesh networks
- Wi-Fi
- Bluetooth
- 3rd party telemetry platforms

#### SOFTWARE CAPABILITY

- Turn-key with Charthouse Remote DNA
- Compatible with most mainstream remote monitoring systems



## USER APPLICATIONS

### Nuclear Facility Room Area Monitoring

- Nuclear power plant aux/reactor building real-time monitoring for RWP information
- Outage job/task real-time monitoring
- Waste handling/processing area monitoring

### Healthcare

- Proton therapy: room and beam delivery real-time monitoring
- Diagnostic imaging and x-ray suite monitoring



## USER APPLICATIONS CONTINUED

### Emergency Plan (E Plan) Teams

- Place in vehicle to provide real-time dose rate readings
- Drop and go' plume tracking capability

### Thermo Scientific™ RMS-3/DA 1-6 and DA 1-8 replacement

- The ARM-1000 coupled with the RD 1-6 /RD1-8 detector is a turn-key replacement for the Thermo Scientific™ RMS-3 system

## KEY BENEFITS

- Highly visible, dual channel display
- Highly visible (strobe) and audible (105 dB) alarm
- Multiple detector configuration (Thermo Scientific™ DA1-XX, 3rd party GM, etc.)
- 900 MHz/2.4 GHz and Wi-Fi compatible
- Ethernet connectivity
- Internal rechargeable battery
- Ergonomic configuration software package (ARM Manager) allows for easy and quick configuration and calibration
- Drive external detector source check mechanisms
- Rugged/splashproof exterior; IP 65 design
- Control external devices: 4-20mA relay signal; 3 internal contacts



**PRODUCT SPECIFICATIONS**

RADIATION DETECTION	<b>Internal Detector</b> (optional)	Compensated GM-tube
	<b>Detection Ranges</b>	0.1mR/hr - 4 R/hr 1 mR/h - 100 R/h
POWER REQUIREMENTS	<b>AC Power</b>	120-240 VAC
	<b>DC Power</b>	12-24 VDC
	<b>Power Over Ethernet</b>	IEEE 80-2.3 at/25.5 W
GENERAL	<b>Dimensions (HxWxL)</b> excluding antenna	31.0 x 17.5 x 12.9 cm
	<b>Weight</b> excluding batteries	1.7 Kg
	<b>Operating Temperature</b>	-20°C to 50°C
DISPLAY	<b>Type</b>	16 dot matrix digits (LED)
EXTERNAL CONNECTIONS	<b>USB</b>	USB configuration port
	<b>DE-9</b>	RS-232 / RS-485
	<b>RJ-45</b>	Ethernet / PoE
900MHZ RADIO (XT MODEL SUFFIX)	<b>Range</b> Indoor/Urban RF Line of Sight	Up to 3000 ft (900m)
	<b>Range</b> Outdoor/RF Line of Sight	Up to 1 mile (1.6 km)
	<b>Transmit Power Output</b>	Up to 500 mW
	<b>Frequency Range</b>	902 MHz - 928 Mhz
	<b>Receiver Sensitivity</b>	-110 dBm (9600 baud)
	<b>FCC Part 15.247</b>	OUR-9XTEND
	<b>Industry Canada (IC)</b>	4213A-9XTEND

**CONTACT**

## AMERICAS

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