MIRION TECHNOLOGIES

Radiation. **Safety.**

DRM

Data Radiation Monitoring Systems

Nuclear Power | Homeland Security & Defense | Industrial and Manufacturing | Healthcare | Labs and Education

OVERVIEW

The DRM "Data Area Monitors" are the next generation of wide range gamma area radiation detection systems. The DRM system consists of various modules which are easily deployed depending on the monitoring application: detector unit, remote display, all-in detector and display unit and external battery. The DRM family integrates WRM2 Telemetry, Network connectivity, Cellular and GPS for flexibility in area radiation monitoring applications. Additional configurations include Environmental Enclosures, Solar Power, and MILSTD EMI, ESD and Temperature resistance.

DRM models include:

- DRM-1/2 Wide Range Gamma (GM)
- DRM-1D /2DSensitive Detection (CsI)
- DRM-2N Industrialized
- DRM-2C Gamma Criticality
- DRM-2I Source Term & Near Boundary

KEY FEATURES

- Gamma radiation surveillance utilizing externally connected wide range GM (10uR/h to 1200R/h) or sensitive CsI(1uR/h to 10 mR/hr) detectors.
- Audible Buzzer and LED Alarm indicators
- Connect up to two Remote Display Units
- Extend Remote Display and External Detector over 500ft
- Up to five programmable dose rate thresholds
- WRM2 Wireless, Ethernet and Cellular Communication options

Health Physics Division

TECHNICAL SPECIFICATIONS:

External Detector Probe	Low Range: GM Tube ZP-1201 (or equivalent) or Canberra 3G6500 High Range: GM Tube ZP-1301 (or equivalent)		
Measuring Ranges	0.00005 R/h to 1200 R/hr (0.5 µSv/hr to 10 Sv/hr) with Automatic switching		
Measurement Units	mR/hr, R/hr, (mSv/hr, Sv/hr)		
Display Range	0.001 R/hr to 9.999 R/hr		
Accuracy	±10 % of reading, within the measuring range		
Energy Response 137Cs	±20 % at 70 keVto 2 MeV		
Sensitivity 137Cs	Low Range: 17 cps/mR/hr High Range: 0.3 cps/mR/hr		
Power Source(s)	• External power supply and battery backup • External power supply: Input 120-250 VAC, Output 6 VDC to 15VDC with locking connector • Battery back-up: Three (3) 1.2v NiMH2100mA rechargeable • Battery operating lifetime: Up to 8 hours of continuous operation • External power and back-up options		
Display • Control Unit • Remote Display Unit	• LCD, 7 segment, 4 digits • Detector failure and disconnection • Low battery • Overflow • Parameter Configuration • Calibration		
Audio	One flush-mount piezo electric element for audible alert indications		
Controls	Control Unit:	Parameter & Acknowledgment Pushbutton Battery Back-up On-Off Switch	
	Remote Display Unit:	Alarm Acknowledgment Pushbutton	
Temperature Range	Operation: Storage:	15°F to 122°F (-10°C to +50°C) -5°F to 140°F (-20°C to + 60°C)	
Humidity Range	10% to 95% RH (non condensing)		
Dimensions	**Component**	**L x W x H (in)**	**Weight**
	Control Unit • Front Case Flange • Rear Panel	8.75 x 6.125 x 4.25 11 x 6.125	3.75
	Remote Display Unit • Front Case Flange • Rear Panel	8.75 x 6.125 x 2.875 11 x 6.125	2.75
	External Detector Probe	9.5 x 1.75 (Diameter)	1
	Holder, Detector Probe	1.25 x 1.75 x 1.875	<0.25

ADDITIONAL PICTURES

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