



WRM2

Wireless Remote Monitoring System



Nuclear
Power



Homeland
Security
& Defense



Industrial and
Manufacturing



Healthcare



Labs and
Education

OVERVIEW

The WRM2 represents teledosimetry technology for the new millennium. This compact, robust system provides unparalleled features for wireless personnel and area monitoring and increases worker awareness of radiological environments through enhanced alarm indications.

KEY FEATURES

The WRM2 is a Multi-Frequency Hopping Spread Spectrum (FHSS) teledosimetry system for operational remote personnel and area radiation monitoring applications.

- Compact and rugged for indoor/outdoor applications
- High visibility LED, high decibel and vibration alarm indications
- Long-life battery and AC power
- Improved clip design
- Exceptional range >6000ft LOS and extendable using MESH Repeaters
- Offered in 900 MHz and 2.4 GHz frequencies
- Two-way communication options
- Compatible with MGPI air monitors and portable instruments

OPERATING CHARACTERISTICS

- Transmit Power Output: 100 mW (900 MHz), 50 mW (2.4 GHz)
- Receiver Sensitivity: -110 dBm (900 MHz) and -105 dBm (2.4 GHz)
- Frequencies: 900 (910-917) MHz or 2.4 GHz spread spectrum hopper
- Over the air data stream: 19,200 BAUD
- Addressable Range: from 0 to 65,000
- Programmable transmission intervals: from 1 sec to 16 sec

FCC approved, IC Certified, 2.4 GHz unit is CE marked.
Gamma and beta gamma dosimeter compatible.

ELECTRICAL CHARACTERISTICS

	PAM-TRX	Base Transceiver	MESH Repeater/EXT	IMUX
Battery Type	1.5 VDC AA alkaline	1.5 VDC AAA NiMH	9 VDC Alkaline	1.2 VDC AA NIMH
Battery Life	35+ hours	4-8 hours	4-8 hours	24+ hours
External Power	3 VDC std 1.3 x 3.5mm coax	15 VAC 1A Coax center + pin	15 VAC 1A Coax center + pin	5 VDC 2.5A MUX connector

PHYSICAL CHARACTERISTICS

	PAM-TRX	Base Transceiver	MESH Repeater/EXT	IMUX
Buzzer Frequency	2200±500Hz			
Sound Level	≥85dB @ 30cm			
LED's	Top & Front	Top Panel	Top Panel	Front case
Vibration	Standard Pager Type			
Controls	Push button	Rotary & slide switches	Slide switch	
Ruggedness	6 drops @ 1.5m on concrete	2 drops @ 1m on concrete	2 drops @ 1m on concrete	2 drops @ 1m on concrete

PHYSICAL CHARACTERISTICS

Operating Temp: -10C to 50C (14F to 122F)
Relative Humidity: less than 99% (without condensation)

MECHANICAL CHARACTERISTICS

	PAM-TRX	Base Transceiver	MESH Repeater/EXT	IMUX
Height	4.6" (120mm)	1.5" (40mm)	1.2" (30mm)	4.5" (115mm)
Width	2.6" (65mm)	5.5" (150mm)	2.75" (70mm)	2.6" (65mm)
Thickness	1.3" (32mm)	9.5" (235mm)	5.5" (150mm)	1.6" (41mm)
Weight	7.7oz (220g) w/ bat & DMC	30 oz (850g) w/ batteries	11oz (310g) w/ bat & antenna	12oz (340g) w/ batteries

ADDITIONAL PICTURES



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