



WRM 2)))
868-900-2.4

Wireless Remote Monitoring System

- Multi frequency hopping Spread Spectrum (FHSS)
- teledosimetry system for operational remote
- area radiation monitoring applications

- Compact, rugged system for indoor and outdoor applications
- High Visibility LED/High Audible & Vibration Alarm indications
- Long-life battery and optional AC power
- Stand-alone and Network operation
- Improved clip design
- Exceptional range >6000ft line-of-sight
- Offered in 868 MHz, 900 MHz and 2.4 GHz frequencies
- Multiple Base & Repeater functions
- Configurable for two-way communication
- Compatible with MGP Instruments Air Monitors and Portable Instruments.

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.

Operating Characteristics

- **Transmit power output:**
 - 140 mW (900 MHz)
 - 50 mW (2.4 GHz)
- **Receiver sensitivity:**
 - -110 dBm (900 MHz)
 - -105 dBm (2.4 GHz)
- Frequencies: 868 MHz, 925 MHz or 2.4 GHz spread spectrum hopper
- **Range: 900 MHz unit:**
 - 1500' indoors-industrial environment
 - 7 miles outdoors line-of-sight with standards dipole antenna
 - up to 20 miles with high gain directional antenna

- **2.4 GHz unit:**
 - 600' indoors
 - 3 miles outdoors line-of-sight w/dipole antenna
 - up to 10 miles w/ high gain antenna
 - up to 2 miles in standard configuration with PAM-TRX and Base Transceiver

Range can be greatly enhanced using high gain antennas and Repeater (optimally configured in optimal environmental conditions)

Mesh Repeater Technology permits unlimited distancing of PAM TRX to Base Transceiver

- Over the air data stream: 19,200 BAUD
- Addressable Range: from 0 to 65,000
- Programmable transmission intervals from 1 sec to 16sec.
- FCC approved, IC Certified, 2.4 GHz unit is CE marked

Physical Characteristics

- **PAM-TRX:**
 - Buzzer frequency: 2700±500 Hz.
 - Buzzer sound level at 30 cm: at least 85 dB.
 - RED LED viewing angle: ±145° (top and front)
 - Vibrator: Standard pager type
 - Ruggedness: 6 drops on concrete from 1.5 m
- **BASE & REPEATER:**
 - LED viewing angle: ±145° from the top
 - Front panel controls: clearly labeled, protected from inadvertent operation
 - Ruggedness: 2 drops on concrete from 1.0 m with antenna
 - Attachments: rubber feet; magnetic mount

Mechanical characteristics

	Height	Width	Thickness/Depth	Weight
PAM-TRX	4.6" (120 mm)	2.6" (65 mm).	1.3" (32 mm)	7.7 oz. (220g). (including batteries and DMC)
BASE	1.5" (40 mm)	5.5" (140 mm)	Depth: 9.5" (235 mm)	1 lb 14 oz (850 g) (including batteries & antenna)
REPEATER	1.2" (30 mm)	2.75" (70 mm)	Depth: 5.5" (140 mm)	11 oz (310 g) (including batteries & antenna)

Electrical Characteristics

PAM-TRX:

- Battery type (BT1): 1.5 VDC AA Alkaline.
- Battery life: 24 hours of transmission with one hour of continuous alarms.
- Connector for external alarm: 3.5-mm stereo plug
- External Power Supply: 3 VDC standard 1.3 x 3.5 mm • coaxial power jack.

REPEATER:

- External Power Supply: Wall pack power adaptor 100 to 250 VAC input,
- 15 VDC 1 A coaxial power jack with center + pin.
- Threaded locking type plug.
- Power switch: Frontpanel slide type.
- Battery type: 9 VDC alkaline.
- Battery life: At least 2 hours of full operation with alkaline, 1 hour with LiMH.

BASE:

- External Power Supply: Wall pack power adaptor 100-250 VAC input
- 15 VDC 1 A coaxial power jack with center + pin.
- Threaded locking type plug.
- Power switch: Frontpanel slide type.
- Battery type: 8 x 1.5 VDC 'AAA' NiMH rechargeable types.
- Battery life: At least 4 hours of full operation.
- Connectors to PC/network: DB-9F for RS-232, 10/100 RJ-45 for network
- Mode selection: 4 position rotary switch.

Environmental Characteristics

- Operating Temperature: -10°C to 50°C (or 14°F to 122°F)
- Relative Humidity: less than 95% (without condensation)

130520-C

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As standards, specifications and design change from time to time, please ask for confirmation of the information given in this publication.