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.

**DESCRIPTION**

The WRM2 System provides a means to monitor and supervise a population of various radiation monitors spread out over a large area. It wirelessly links devices equipped with WRM2 transmitters and can display their statuses and measurements on a computer comfortably outside the area where the radiation measurement is taking place.

- Provides real-time readouts and statuses of transmitter equipped units operating in an area.
- Enables a supervisor outside a radiation work area to be instantly alerted to alarm conditions happening inside.
- Compact and rugged equipment for indoor or outdoor applications.
- Roughly 6000ft Line-of-Sight range, extendable with the use of MESH Repeaters.

**FEATURES**

- 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
# WRM2

## SPECIFICATIONS

### OPERATING CHARACTERISTICS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transmit Power Output</td>
<td>100 mW (900 MHz), 50 mW (2.4GHz)</td>
</tr>
<tr>
<td>Receiver Sensitivity</td>
<td>-110 dBm (900 MHz) and -105 dBm (2.4 GHz)</td>
</tr>
<tr>
<td>Frequencies</td>
<td>900 (910-917) MHz or 2.4 GHz spread spectrum hopper</td>
</tr>
<tr>
<td>Over the air data stream</td>
<td>19,200 BAUD</td>
</tr>
<tr>
<td>Addressable Range</td>
<td>from 0 to 65,000</td>
</tr>
<tr>
<td>Programmable transmission</td>
<td>from 1 sec to 16 sec</td>
</tr>
</tbody>
</table>

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

### ELECTRICAL CHARACTERISTICS

#### PAM-TRX
- **Battery Type**: 1.5 VDC AA alkaline
- **Battery Life**: 35+ hours
- **External Power**: 3 VDC std 1.3 x 3.5mm coax
- **Buzzer Frequency**: 2200±500Hz
- **Sound Level**: >85dB @ 30cm
- **Vibration**: Standard Pager Type
- **Ruggedness**: 6 drops @ 1.5m on concrete

#### Base Transceiver
- **Battery Type**: 1.5 VDC AAA NiMH
- **Battery Life**: 4-8 hours
- **External Power**: 15 VAC 1A Coax center + pin
- **LED's**: Top & Front
- **Vibration**: Rotary & slide switches
- **Ruggedness**: 2 drops @ 1m on concrete

#### MESH Repeater/EXT
- **Battery Type**: 9 VDC Alkaline
- **Battery Life**: 4-8 hours
- **External Power**: 15 VAC 1A Coax center + pin
- **LED's**: Top Panel
- **Vibration**: Slide switch
- **Ruggedness**: 2 drops @ 1m on concrete

#### IMUX
- **Battery Type**: 1.2 VDC AA NiMH
- **Battery Life**: 24+ hours
- **External Power**: 5 VDC 2.5A MUX connector
- **LED's**: Front case
- **Vibration**: Slide switch
- **Ruggedness**: 2 drops @ 1m on concrete

### PHYSICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temp</td>
<td>14° to 122° F (-10° to 50° C)</td>
</tr>
<tr>
<td>Relative Humidity</td>
<td>less than 99% (without condensation)</td>
</tr>
</tbody>
</table>

### MECHANICAL CHARACTERISTICS

#### PAM-TRX
- **Height**: 4.6” (120mm)
- **Width**: 2.6” (65mm)
- **Thickness**: 1.3” (32mm)
- **Weight**: 7.7oz (220g) w/bat & DMC

#### Base Transceiver
- **Height**: 1.5” (40mm)
- **Width**: 5.5” (150mm)
- **Thickness**: 9.5” (235mm)
- **Weight**: 30 oz (850g) w/batteries

#### MESH Repeater/EXT
- **Height**: 1.2” (30mm)
- **Width**: 2.75” (70mm)
- **Thickness**: 5.5” (150mm)
- **Weight**: 11oz (310g) w/bat & antenna

#### IMUX
- **Height**: 4.5” (115mm)
- **Width**: 2.6” (65mm)
- **Thickness**: 1.6” (41mm)
- **Weight**: 12oz (340g) w/batteries