A. Typical Applications

<table>
<thead>
<tr>
<th>Description</th>
<th>Uses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pipe &amp; cable locator transmitter</td>
<td>Transmitting active signals for the location of buried pipes and cables</td>
</tr>
</tbody>
</table>

B. Transmitter Assembly

<table>
<thead>
<tr>
<th>Item</th>
<th>Parameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction</td>
<td>High impact ABS</td>
</tr>
<tr>
<td>Weight</td>
<td>1.41 lbs (0.64kg) (Excluding battery)</td>
</tr>
<tr>
<td>Dimension</td>
<td>16.9in(L) x 3.1in(W) x 1.7in(H) (430mm x 79mm x 44mm)</td>
</tr>
<tr>
<td>Power Supply</td>
<td>Standard battery pack - using 4 x alkaline &quot;D&quot; cells</td>
</tr>
<tr>
<td>Battery Life</td>
<td>At 70ºF (21ºC) - continuous use</td>
</tr>
<tr>
<td>Frequency</td>
<td>Output Power</td>
</tr>
<tr>
<td>8.2 kHz</td>
<td>Full Power 1 watt 28 hours</td>
</tr>
<tr>
<td></td>
<td>Low Power 0.1 watt 150 hours</td>
</tr>
<tr>
<td>480 kHz</td>
<td>Full Power 0.7 watt 25 hours</td>
</tr>
<tr>
<td></td>
<td>Low Power 0.09 watt 100 hours</td>
</tr>
<tr>
<td>External Connectors</td>
<td>1 x 3 pin connection socket – (XLR)</td>
</tr>
<tr>
<td>Output Protection</td>
<td>Output protected against accidental connection to up to 240V AC (50/60Hz)</td>
</tr>
<tr>
<td>Approvals</td>
<td>Complies with European standard CE (Directive 99/5/EC)</td>
</tr>
<tr>
<td></td>
<td>- EN 55011</td>
</tr>
<tr>
<td></td>
<td>- EN 61000-4-2</td>
</tr>
<tr>
<td></td>
<td>- EN 61000-4-3</td>
</tr>
<tr>
<td></td>
<td>- EN 61000-4-4</td>
</tr>
<tr>
<td></td>
<td>- EN 61000-4-5</td>
</tr>
<tr>
<td></td>
<td>- EN 61000-4-8</td>
</tr>
<tr>
<td></td>
<td>- Complies with FCC Rules Part 15</td>
</tr>
<tr>
<td>Standard Accessories</td>
<td>1 x direct connection lead (XLR plug with two cables each 10ft (3.5m) long with crocodile clips)</td>
</tr>
<tr>
<td>(Supplied With Transmitter)</td>
<td>1 x T type ground stake</td>
</tr>
<tr>
<td>Optional Accessories</td>
<td>Transmitter only &quot;shoulder bag&quot;</td>
</tr>
<tr>
<td></td>
<td>2in (50mm) transmitter clamp</td>
</tr>
<tr>
<td></td>
<td>4in (100mm) transmitter clamp</td>
</tr>
<tr>
<td></td>
<td>5in (125mm) transmitter clamp</td>
</tr>
<tr>
<td></td>
<td>LPC Separation Filter (to connect and use transmitter on lines carrying up to 240V AC)</td>
</tr>
</tbody>
</table>
### C. Operational

<table>
<thead>
<tr>
<th>Item</th>
<th>Parameter</th>
</tr>
</thead>
</table>
| **Location Modes** | - Induction mode – applies signal inductively using internal antenna  
                        - Direct connection mode - applies signal directly to the cable by clipping one output lead to the cable, the other to an independent ground  
                        - Clamp mode – applies signal using an inductive clamp (toroid) that is placed around the target cable  
                        * Modes are selected automatically when accessories are plugged in.  
                        * Default mode (no accessories) is induction. |
| **Transmitting Frequency by Mode** | - **Direct connection mode / Clamp mode:**  
                                        8.2 kHz (8192Hz) / 480 kHz  
                                        - **Induction Mode**  
                                        480 kHz |
| **Transmitting Power output** | In accordance with FCC part 15:  
                                    | **Frequency** | **Output level** | **Power** |
|                    | 8.2 kHz | High    | 1 watt |
|                    |         | Low     | 0.1 watt |
|                    | 480 kHz | High    | 0.7 watt |
|                    |         | Low     | 0.09 watt |
| **Output Voltage** | Maximum output voltage = 60V RMS |
| **Output Current** | Maximum output current = 150mA RMS constant current |
| **Audio indication** | - Connection quality – variable beep rate sound showing the better signal applied  
                                - Beep constantly – for high voltage detected |
| **Controls** | Use pushbuttons to select:  
                        - Power button: On / Off (Press and hold); Low / High output (Short press)  
                        - Audio button: Off / Low / High (Short press) |
| **Compatible With Receivers** | VM-560 |
| **Compatible Accessories** | Signal Clamp, 2in Clamp, 4in Clamp, 5in Clamp, Flexible Clamp |

### D. Environmental

<table>
<thead>
<tr>
<th>Item</th>
<th>Parameter</th>
</tr>
</thead>
</table>
| **Temperature Range** | Operating: -4°F to 122°F (-20°C to 50°C)  
                            Storage: -40°F to 140°F (-40°C to 60°C) |
| **Weather Proof**  | IP54 and NEMA 4 |
| **Shipping Weight** | 14.3lbs (6.5kg) *(With receiver) (estimation)* |
| **Shipping Dimension** | 3.6in(L) x 4.9in(W) x 37in(H) (85mm x 125mm x 940mm) *(estimation)* |
## E. Warranty

<table>
<thead>
<tr>
<th>Item</th>
<th>Parameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Warranty</td>
<td>12 months (Limited warranty)</td>
</tr>
</tbody>
</table>

**Disclaimer:** Product and accessory specification and availability information is subject to change without prior notice.