

## A. Typical Applications

Item	Parameter
Description	Pipe & cable locator transmitter
Uses	Transmitting active signals for the location of buried pipes and cables

## B. Transmitter Assembly

Item	Parameter																		
Construction	High impact ABS																		
Weight	1.41 lbs (0.64kg) (Excluding battery)																		
Dimension	16.9in(L) x 3.1in(W) x 1.7in(H) (430mm x 79mm x 44mm)																		
Power Supply	- Standard battery pack - using 4 x alkaline "D" cells																		
Battery Life	At 70°F (21°C) - continuous use <table border="1"> <thead> <tr> <th>Frequency</th> <th>Power</th> <th>Output Power</th> <th>Alkaline</th> </tr> </thead> <tbody> <tr> <td rowspan="2">8.2 kHz</td> <td>Full Power</td> <td>1 watt</td> <td>28 hours</td> </tr> <tr> <td>Low Power</td> <td>0.1 watt</td> <td>150 hours</td> </tr> <tr> <td rowspan="2">480 kHz</td> <td>Full Power</td> <td>0.7 watt</td> <td>25 hours</td> </tr> <tr> <td>Low Power</td> <td>0.09 watt</td> <td>100 hours</td> </tr> </tbody> </table>	Frequency	Power	Output Power	Alkaline	8.2 kHz	Full Power	1 watt	28 hours	Low Power	0.1 watt	150 hours	480 kHz	Full Power	0.7 watt	25 hours	Low Power	0.09 watt	100 hours
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External Connectors	- 1 x 3 pin connection socket – (XLR)																		
Output Protection	Output protected against accidental connection to up to 240V AC (50/60Hz)																		
Approvals	- Complies with European standard CE (Directive 99/5/EC) <ul style="list-style-type: none"> <li>• EN 55011</li> <li>• EN 61000-4-2</li> <li>• EN 61000-4-3</li> <li>• EN 61000-4-4</li> <li>• EN 61000-4-5</li> <li>• EN 61000-4-8</li> </ul> - Complies with FCC Rules Part 15 <ul style="list-style-type: none"> <li>• CFR 47 Part 15: 2006</li> </ul>																		
Standard Accessories (Supplied With Transmitter)	- 1 x direct connection lead (XLR plug with two cables each 10ft (3.5m) long with crocodile clips) - 1 x T type ground stake																		
Optional Accessories	- Transmitter only "shoulder bag" - 2in (50mm) transmitter clamp - 4in (100mm) transmitter clamp - 5in (125mm) transmitter clamp - LPC Separation Filter (to connect and use transmitter on lines carrying up to 240V AC)																		

## C. Operational

Item	Parameter													
<b>Location Modes</b>	<ul style="list-style-type: none"> <li>- Induction mode – applies signal inductively using internal antenna</li> <li>- Direct connection mode - applies signal directly to the cable by clipping one output lead to the cable, the other to an independent ground</li> <li>- Clamp mode – applies signal using an inductive clamp (toroid) that is placed around the target cable</li> </ul> <p>* Modes are selected automatically when accessories are plugged in. * Default mode (no accessories) is induction.</p>													
<b>Transmitting Frequency by Mode</b>	<ul style="list-style-type: none"> <li>- <b>Direct connection mode / Clamp mode:</b> 8.2 kHz (8192Hz) / 480 kHz</li> <li>- <b>Induction Mode</b> 480 kHz</li> </ul>													
<b>Transmitting Mode Power output</b>	<p>In accordance with FCC part 15:</p> <table border="1"> <thead> <tr> <th>Frequency</th> <th>Output level</th> <th>Power</th> </tr> </thead> <tbody> <tr> <td rowspan="2">8.2 kHz</td> <td>High</td> <td>1 watt</td> </tr> <tr> <td>Low</td> <td>0.1 watt</td> </tr> <tr> <td rowspan="2">480 kHz</td> <td>High</td> <td>0.7 watt</td> </tr> <tr> <td>Low</td> <td>0.09 watt</td> </tr> </tbody> </table>	Frequency	Output level	Power	8.2 kHz	High	1 watt	Low	0.1 watt	480 kHz	High	0.7 watt	Low	0.09 watt
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8.2 kHz	High	1 watt												
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<b>Output Voltage</b>	Maximum output voltage = 60V RMS													
<b>Output Current</b>	Maximum output current = 150mA RMS constant current													
<b>Audio indication</b>	<ul style="list-style-type: none"> <li>- Connection quality – variable beep rate sound showing the better signal applied</li> <li>- Beep constantly – for high voltage detected</li> </ul>													
<b>Controls</b>	<p>Use pushbuttons to select:</p> <ul style="list-style-type: none"> <li>- Power button: On / Off (Press and hold); Low / High output (Short press)</li> <li>- Audio button: Off / Low / High (Short press)</li> </ul>													
<b>Compatible With Receivers</b>	VM-560													
<b>Compatible Accessories</b>	Signal Clamp, 2in Clamp, 4in Clamp, 5in Clamp, Flexible Clamp													

## D. Environmental

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

## E. Warranty

Item	Parameter
Warranty	12 months(Limited warranty)

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

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