

## A. Typical Applications

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



## B. Transmitter Assembly

Item	Parameter												
<b>Construction</b>	High impact ABS												
<b>Weight</b>	8.8lbs (4kg)												
<b>Dimension</b>	12.5in(L) x 9.6in(W) x 2.2in(H) (318mm x 243mm x 57.5mm)												
<b>Display Type</b>	Monochrome dot matrix display - LED backlight - active area: 2.5in x 0.6in (65mm x 16mm) 16 character x 2 lines												
<b>Power Supply</b>	- Standard battery pack – using 8 x Ni-MH batter “D” cells												
<b>Battery Life</b>	At 70°F (21°C) - continuous use <table border="0" style="width: 100%;"> <tr> <td style="text-align: center;"><b>Output Power</b></td> <td style="text-align: center;"><b>Alkaline</b></td> <td colspan="2" style="text-align: center;"><b>Ni-MH (Rechargeable)</b></td> </tr> <tr> <td style="text-align: center;">1 watt</td> <td></td> <td style="text-align: center;">20 hours</td> <td style="text-align: center;">50 hours</td> </tr> <tr> <td style="text-align: center;">5 watt</td> <td></td> <td style="text-align: center;">4 hours</td> <td style="text-align: center;">10 hours</td> </tr> </table>	<b>Output Power</b>	<b>Alkaline</b>	<b>Ni-MH (Rechargeable)</b>		1 watt		20 hours	50 hours	5 watt		4 hours	10 hours
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<b>External Connectors</b>	- 1 x 3 pin connection socket – (XLR) - 1 x socket for battery charger & 12V DC power in (installed even if rechargeable battery pack is not requested) - 1 x fuse (output protection) 1.25A (0.2in(D) x 0.8in(L) (5mm x 20mm))												
<b>Output Protection</b>	Output protected against accidental connection to up to 240V AC												
<b>Approvals</b>	- Complies with European standard CE (Directive 99/5/EC) <ul style="list-style-type: none"> <li>• EN 61000-6-4: 2007</li> <li>• EN 61000-4-3: 2006</li> <li>• EN 61000-4-2: 1995 A1 &amp; A2</li> <li>• EN 61000-4-8: 1994 A1</li> <li>• ETSI EN 300 330-2: 2006</li> <li>• ETSI EN 301 489-1: 2005</li> <li>• ETSI EN 301 489-3: 2002</li> </ul> - Complies with FCC Rules Part 15 <ul style="list-style-type: none"> <li>• CFR 47 part 2: 2004</li> <li>• CFR 47 Part 15: 2006</li> <li>• ANSI C63.4: 2003</li> </ul>												
<b>Standard Accessories (Supplied With Transmitter)</b>	- 1 x direct connection lead (XLR plug with two cables each 10ft (3.5m) long with crocodile clips) - 1 x ground lead (30ft (10m) long) - 1 x T type ground stake												

<b>Optional Accessories</b>	<ul style="list-style-type: none"> <li>- Rechargeable battery pack – comprising 8 x D cell Ni-MH batteries and charger (100-240V AC – 2A)</li> <li>- Transmitter only “shoulder bag”</li> <li>- 12V DC vehicle power lead for powering the transmitter from a vehicle (not charging the transmitter)</li> <li>- 100-240V AC power supply for powering the transmitter from mains power (not charging the transmitter)</li> <li>- 4in (100mm) transmitter clamp</li> <li>- 5in (125mm) transmitter clamp</li> <li>- 9in (approx. 228mm) flexible clamp</li> <li>- 18in (approx. 450mm) flexible clamp</li> <li>- LPC Separation Filter (to connect and use transmitter on lines carrying up to 240V AC)</li> </ul>
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**C. Operational**

Item	Parameter
<b>Information Displayed</b>	<ul style="list-style-type: none"> <li>- Output current (numeric)</li> <li>- Volts</li> <li>- Resistance</li> <li>- Frequency of output signal</li> <li>- High voltage warning if volts on line exceed RMS 36V</li> <li>- Beeper volume (3 levels &amp; off)</li> <li>- Battery condition</li> </ul>
<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.</p> <p>* Default mode (no accessories) is induction.</p>

<p><b>Transmitting Frequency by Mode</b></p>	<p>- <b>Induction mode</b></p> <p>Three frequency configurations available with the proper software in induction mode, and 2 frequencies at each configuration:</p> <p>Config001: 8.19 kHz (8,192Hz) and 32.8 kHz (32,768Hz)</p> <p>Config002: 32.8 kHz (32,768Hz) and 65.5 kHz (65,536Hz)</p> <p>Config003: 32.8 kHz (32,768Hz) and 200 kHz (200,000Hz)</p> <p>- <b>Direct connection mode</b> are as follows – frequencies used regularly (favorites) can be selected - so that they are the only one included in the frequency selection mode.</p> <table border="1" data-bbox="529 607 1366 1267"> <tr> <td>SD –EUR</td> <td></td> <td></td> <td></td> </tr> <tr> <td>SD–USA</td> <td></td> <td></td> <td></td> </tr> <tr> <td>FF – Low</td> <td>(3Hz &amp; 6Hz)</td> <td>9.5 kHz</td> <td>(9,500Hz)</td> </tr> <tr> <td>FF – High</td> <td>(3Hz &amp; 6Hz)</td> <td>9.82 kHz</td> <td>(9,820Hz)</td> </tr> <tr> <td></td> <td></td> <td>32.8 kHz</td> <td>(31,768Hz)</td> </tr> <tr> <td>256Hz</td> <td></td> <td>38 kHz</td> <td>(38,000Hz)</td> </tr> <tr> <td>440Hz</td> <td></td> <td></td> <td></td> </tr> <tr> <td>480Hz</td> <td></td> <td>65.5 kHz</td> <td>(65,536Hz)</td> </tr> <tr> <td>484Hz</td> <td></td> <td>78.1 kHz</td> <td>(78,125Hz)</td> </tr> <tr> <td>491Hz</td> <td></td> <td></td> <td></td> </tr> <tr> <td>512Hz</td> <td></td> <td>82.5 kHz</td> <td>(82,488Hz)</td> </tr> <tr> <td>640Hz</td> <td></td> <td>83.1 kHz</td> <td>(83,077Hz)</td> </tr> <tr> <td>982Hz</td> <td></td> <td></td> <td></td> </tr> <tr> <td>1.45 kHz</td> <td></td> <td>89 kHz</td> <td>(89,000Hz)</td> </tr> <tr> <td>8.19 kHz</td> <td>(8,192Hz)</td> <td>131 kHz</td> <td>(131, 072Hz)</td> </tr> <tr> <td>8.44 kHz</td> <td>(8,440Hz)</td> <td>200 kHz</td> <td>(200,000Hz)</td> </tr> </table> <p>* Other frequencies can be added</p> <p>* Multi frequency mode, up to 3 simultaneously</p> <p>Signal Direction – will have two combinations of SD frequency.</p> <table border="1" data-bbox="529 1491 852 1576"> <tr> <td>SD-USA</td> <td>256Hz/512Hz</td> </tr> <tr> <td>SD-EUR</td> <td>320Hz/640Hz</td> </tr> </table> <p>- <b>Clamp mode</b></p> <p>When direct connection modes are added to the “favorites” frequency, toggle any frequency selected that falls in the range 8 kHz to 131 kHz will automatically be configured in the “Clamp mode” selection.</p>	SD –EUR				SD–USA				FF – Low	(3Hz & 6Hz)	9.5 kHz	(9,500Hz)	FF – High	(3Hz & 6Hz)	9.82 kHz	(9,820Hz)			32.8 kHz	(31,768Hz)	256Hz		38 kHz	(38,000Hz)	440Hz				480Hz		65.5 kHz	(65,536Hz)	484Hz		78.1 kHz	(78,125Hz)	491Hz				512Hz		82.5 kHz	(82,488Hz)	640Hz		83.1 kHz	(83,077Hz)	982Hz				1.45 kHz		89 kHz	(89,000Hz)	8.19 kHz	(8,192Hz)	131 kHz	(131, 072Hz)	8.44 kHz	(8,440Hz)	200 kHz	(200,000Hz)	SD-USA	256Hz/512Hz	SD-EUR	320Hz/640Hz
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<p><b>Transmitting Mode Power output</b></p>	<p>In accordance with FCC part 15:</p> <ul style="list-style-type: none"> <li>- Frequencies under 45 kHz - 5 watts</li> <li>- Frequencies over 45 kHz - 1 watt</li> </ul>																																																																				

<b>Output Voltage</b>	Maximum output voltage = 30V RMS
<b>Output Current</b>	Maximum output current = 300mA RMS constant current
<b>Audio indication</b>	<ul style="list-style-type: none"> <li>- Connection quality – Fast beep sound showing the better signal applied</li> <li>- Low battery warning</li> <li>- Beep to confirm action</li> <li>- Long beep to confirm “set”</li> </ul>
<b>Controls</b>	<p>Use pushbuttons to select:</p> <ul style="list-style-type: none"> <li>- Frequency</li> <li>- Output level</li> <li>- Information (volts &amp; resistance) / Setting (volume, frequency &amp; multi mode)</li> </ul> <p>“Up” and “down” pushbuttons to step through displayed menu.  Selection confirmed on exit or after 3 seconds with no button pressed. To confirm and exit the frequency selection press “information button”.</p>
<b>Compatible With Receivers</b>	vLocPro, vLocML
<b>Compatible Accessories</b>	Signal Clamp, 4in Clamp, 5in Clamp, LPC Separation Filter, Flexible Clamp

#### D. Environmental

Item	Parameter
<b>Temperature Range</b>	Operating : -4°F to 122°F (-20°C to 50°C) Storage : -40°F to 140°F (-40°C to 60°C)
<b>Weather Proof</b>	IP54 and NEMA 4
<b>Shipping Weight</b>	10.9lbs (4.94kg)
<b>Shipping Dimension</b>	14.4in(L) x 11.0in(W) x 7.1in(H) (365mm x 280mm x 180mm)

#### E. Warranty

Item	Parameter
<b>Warranty</b>	12 months(Limited warranty)

#### F. Upgrade

Item	Parameter
<b>Software</b>	Software can be upgraded by using a PC with an USB port.

Disclaimer: All product availability or product accessory information is subject to change without notice.

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**Notes:**

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