



# Locator VLOC<sup>Pro</sup> - Transmitter

## 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 plastic  |                  |          |       |        |   |                  |        |   |                  |        |   |                  |
| <b>Weight</b>                                | 11 lbs (5Kg)   |                  |          |       |        |   |                  |        |   |                  |        |   |                  |
| <b>Display type</b>                          | Monochrome dot matrix display 2.3/8inch x 1.1/4inch (60mm x 32mm)  |                  |          |       |        |   |                  |        |   |                  |        |   |                  |
| <b>Batteries</b>                             | Modular removable battery packs <ul style="list-style-type: none"> <li>➤ Standard pack – using 10 – D alkaline “D” cells</li> <li>➤ Rechargeable pack – Sealed Ni-MH (Nickel Metal Hydride) pack</li> <li>➤ Unless specified otherwise transmitter is supplied with 10 x alkaline “D” cells</li> </ul>   |                  |          |       |        |   |                  |        |   |                  |        |   |                  |
| <b>Battery Life</b>                          | At 70 °F (21 °C) - continuous use <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Output Power</th> <th>alkaline</th> <th>Ni-MH</th> </tr> </thead> <tbody> <tr> <td>1 watt</td> <td>8</td> <td>8 hours or above</td> </tr> <tr> <td>5 watt</td> <td>6</td> <td>6 hours or above</td> </tr> <tr> <td>10watt</td> <td>5</td> <td>5 hours or above</td> </tr> </tbody> </table> <p><i>Ni-MH batteries will withstand 500 charging life cycles</i></p>             | Output Power     | alkaline | Ni-MH | 1 watt | 8 | 8 hours or above | 5 watt | 6 | 6 hours or above | 10watt | 5 | 5 hours or above |
| Output Power                                 | alkaline   | Ni-MH            |          |       |        |   |                  |        |   |                  |        |   |                  |
| 1 watt                                       | 8  | 8 hours or above |          |       |        |   |                  |        |   |                  |        |   |                  |
| 5 watt                                       | 6  | 6 hours or above |          |       |        |   |                  |        |   |                  |        |   |                  |
| 10watt                                       | 5  | 5 hours or above |          |       |        |   |                  |        |   |                  |        |   |                  |
| <b>Battery Charger</b><br>(Charger supplied) | Input: AC100V – 240V ~ 1.0A MAX; 47-63Hz<br>Output: 12.57V – 2.0A  |                  |          |       |        |   |                  |        |   |                  |        |   |                  |
| <b>Options</b>                               | Ni-MH (Nickel Metal Hydride) battery pack and charger  |                  |          |       |        |   |                  |        |   |                  |        |   |                  |
| <b>External connectors</b>                   | 1 x 3 pin connection socket – (XLR)<br>1 x socket for battery charger (installed even if rechargeable battery pack is not requested)<br>1 x fuse (output protection) 1.25AMP, 350V, 5mm(D) x 20mm(L) and 4 spare fuse  |                  |          |       |        |   |                  |        |   |                  |        |   |                  |
| <b>Output Protection</b>                     | Output protected against accidental connection to up to AC240V   |                  |          |       |        |   |                  |        |   |                  |        |   |                  |
| <b>Approvals</b>                             | <ul style="list-style-type: none"> <li>➤ Complies with European standard CE (Directive 99/5/EC)               <ul style="list-style-type: none"> <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> </li> <li>➤ 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> </li> </ul> |                  |          |       |        |   |                  |        |   |                  |        |   |                  |
| <b>Standard</b>                              | ➤ 1 x direct connection lead (XLR plug with two cables each 10 feet (3.5 meters))  |                  |          |       |        |   |                  |        |   |                  |        |   |                  |



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| <b>Accessories<br/>(supplied with transmitter)</b> | long with crocodile clips)<br>➤ 1 x clamp connection lead ( 15 feet <i>(4.8 meters)</i> long)<br>➤ 1 x Ground lead (30 feet <i>(10 meters)</i> long)<br>➤ 1 x Tee handled - ground stake<br>➤ 1 x User Manual<br>If purchased with Receiver a roll round carry bag is supplied |
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## C. Operational

| Item   | Parameter  |               |       |                |                  |                  |                    |
|--|--|---------------|-------|----------------|------------------|------------------|--------------------|
| <b>Information displayed</b>   | <ul style="list-style-type: none"> <li>➤ Output current (numeric)</li> <li>➤ Graphic animation for different connection modes (Induction, Direct connection, clamp)</li> <li>➤ Frequency of output signal</li> <li>➤ Bargraph showing proportion of signal successfully applied (Ground return current)</li> <li>➤ Volts on target line</li> <li>➤ High voltage warning if volts on line exceed AC30V</li> <li>➤ Resistance</li> <li>➤ Loudspeaker volume (3 levels &amp; off)</li> <li>➤ Battery condition</li> </ul>                                     |               |       |                |                  |                  |                    |
| <b>Location modes</b>  | <ul style="list-style-type: none"> <li>➤ <b>Induction</b> mode – applies signal inductively using internal antenna</li> <li>➤ <b>Direct connection mode</b> - applies signal directly to the cable by clipping one output lead to the cable, the other to an independent ground</li> <li>➤ <b>Clamp mode</b> – applied 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.<br/>           * Default mode (no accessories) is induction.</p> |               |       |                |                  |                  |                    |
| <b>Transmitting Frequencies<br/>(varies by country &amp; market)</b> | <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">512Hz (512Hz)</td> <td style="width: 50%;">640Hz</td> </tr> <tr> <td>8kHz (8,192Hz)</td> <td>33kHz (32,768Hz)</td> </tr> <tr> <td>65kHz (65,536Hz)</td> <td>200kHz (200,000Hz)</td> </tr> </table> <p>Other frequencies between 200 Hz and 200kHz can be provided on request free of charge (FOC)</p>  | 512Hz (512Hz) | 640Hz | 8kHz (8,192Hz) | 33kHz (32,768Hz) | 65kHz (65,536Hz) | 200kHz (200,000Hz) |
| 512Hz (512Hz)  | 640Hz  |               |       |                |                  |                  |                    |
| 8kHz (8,192Hz)   | 33kHz (32,768Hz)   |               |       |                |                  |                  |                    |
| 65kHz (65,536Hz)   | 200kHz (200,000Hz)   |               |       |                |                  |                  |                    |
| <b>Transmitting Frequency by mode</b>                                | <ul style="list-style-type: none"> <li>➤ Induction - 33kHz, 65kHz and 200kHz or 8kHz, 33kHz, 65kHz and 200kHz</li> <li>➤ Connection - 512Hz, 640Hz, 8kHz, 33kHz, 65kHz, 200kHz</li> <li>➤ Clamp – 8kHz, 33kHz, 65kHz</li> </ul>  |               |       |                |                  |                  |                    |
| <b>Transmitting Mode Power output</b>                                | <p>In accordance with FCC part 15:<br/> <i>Frequencies under 45 kHz - 10 watts</i></p>   |               |       |                |                  |                  |                    |



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|                         |  |
|-------------------------|--|
|                         | <i>Frequencies over 45 kHz - 1 watt</i>  |
| <b>Output voltage</b>   | Maximum output voltage = 50 volts RMS  |
| <b>Output current</b>   | Maximum output current = 1A RMS  |
| <b>Audio indication</b> | <ul style="list-style-type: none"><li>➤ Connection quality – signal changes pitch – the lower the tone the better the 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>         | Uses pushbuttons to select: <ul style="list-style-type: none"><li>➤ Frequency</li><li>➤ Output level</li><li>➤ Information (volts &amp; resistance)</li></ul> Plus and Minus arrow buttons to step through displayed menu<br>Selection confirmed on exit or after 2 seconds with no button pressed |

### D. Environmental

| Item                      | Parameter  |
|---------------------------|--|
| <b>Temperature Range:</b> | Operating : - 20 °C to 50 °C ( -4 °F to 122 °F)<br>Storage : - 40 °C to 60 °C ( -40 °F to 140 °F)                                  |
| <b>Weather proof</b>      | IP54 and NEMA 4  |
| <b>Shipping weight</b>    | Total: 38.6 lbs (17.5Kg) (Receiver, Transmitter& Accessories )   |
| <b>Shipping dimension</b> | 30.1 inch (H) x 17.5 inch (W) x 11.2 inch (L) (Receiver, Transmitter & Accessories )<br>765.04mm (H) x 444.79mm (W) x 284.67mm (L) |

### E. Warranty

| Item            | Parameter                                |
|-----------------|--|
| <b>Warranty</b> | 12 months (excluding alkaline batteries) |

### F. Upgrade

| Item            | Parameter  |
|-----------------|--|
| <b>Software</b> | Software can be upgraded by using a PC with a USB port Initially install program & locator software will be available via email or CD. Fixes and upgrades (not requiring hardware) will be available free of charge.<br><br>The battery module has to be removed to give access to the side of the TX module. USB connection is there and unit can power up from the USB when software upgrades! |

