

## A. Typical Applications

| Item        | Parameter  |
|-------------|--|
| Description | Multi-purpose precision locator receiver                       |
| Uses        | Locating & pinpointing the position of buried pipes and cables |

## B. Receiver Assembly

| Item                 | Parameter   |
|----------------------|---|
| Construction         | <ul style="list-style-type: none"> <li>- Carbon fiber reinforced antenna tube</li> <li>- High impact thermoplastic (ABS) injection molded housing</li> </ul>  |
| Weight               | 5lbs (2.3kg)  |
| Dimensions           | 10.3in(L) x 9.8in(W) x 25in(H) (262mm x 250mm x 639mm)  |
| Display Type         | Sharp TFT LCD ¼ VGA color display, 3.52in (89mm)  |
| Receiver Antennas    | 4 peak antennas   |
| Batteries            | <ul style="list-style-type: none"> <li>- Rechargeable Lithium-ion batteries with 100-240V AC mains charger.</li> <li>- Replaceable (6 x standard Alkaline AA batteries) batteries can be used when required</li> </ul>  |
| Battery Life         | <ul style="list-style-type: none"> <li>- Alkaline – typically 12 hours intermittent use at 70°F (21°C)</li> <li>- Lithium-ion – typically 40 hours continuous use at 70°F (21°C) (with full backlight turned on). Re-charging cycles approx. 500 times life cycle. Battery life varies with temperature.</li> </ul>   |
| External Connectors  | <ul style="list-style-type: none"> <li>- 1 x Socket for USB accessories</li> <li>- 1 x Mini USB socket for programming</li> <li>- 1 x Socket for battery charger &amp; analogue accessories</li> </ul>  |
| Approvals            | <ul style="list-style-type: none"> <li>- Complies with European standard CE (Directive 99/5/EC) <ul style="list-style-type: none"> <li>• EN 55011</li> <li>• EN 61000-4-2: A1 &amp; A2</li> <li>• EN 61000-4-3</li> <li>• EN 61000-4-8: A1</li> <li>• ETSI EN 300 330-2</li> <li>• ETSI EN 301 489-1</li> <li>• ETSI EN 301 489-3</li> </ul> </li> <li>- Complies with FCC Rules Part 15 <ul style="list-style-type: none"> <li>• CFR 47 part 2</li> <li>• CFR 47 Part 15</li> </ul> </li> </ul>  |
| Standard Accessories | <ul style="list-style-type: none"> <li>- USB data cable</li> <li>- 100-240V AC mains charger (Lithium-ion battery)</li> <li>- Soft carry bag (Roll around bag if purchased with transmitter)</li> <li>- User handbook</li> </ul>  |
| Optional Accessories | <ul style="list-style-type: none"> <li>- Portable Transmitters: Loc-1Tx, Loc-5Tx, Loc-10Tx</li> <li>- Sondes (waterproof self-contained transmitters for use in pipes &amp; ducts) <ul style="list-style-type: none"> <li>• D38-09-AA – 1.5in(Dia.) x 4.1in(L) (38mm x 105mm), 9.82 kHz, range 16.3ft (5m), 1 x AA battery</li> <li>• D38-83-AA – 1.5in(Dia.) x 4.1in(L) (38mm x 105mm), 83 kHz, range 16.3ft (5m), 1 x AA battery</li> <li>• D64-09-6LR61 – 2.5in(Dia.) x 7.3in(L) (64mm x 186mm), 9.82 kHz, range 26ft (8m), 1 x 6LR61 battery</li> <li>• D64-83-6LR61 – 2.5in(Dia.) x 7.3in(L) (64mm x 186mm), 83 kHz, range 26ft (8m), 1 x 6LR61 battery</li> </ul> </li> <li>- A-frame USB (for Sheath Fault Finding)</li> <li>- Remote Antenna USB</li> </ul> |

|  |   |
|--|---|
|  | - Vehicle Charging Lead (Lithium-ion battery) |
|--|---|

### C. Operational

| Item  | Parameter   |
|---|---|
| <b>Information Displayed</b>                              | <ul style="list-style-type: none"> <li>- Classic Left Right indication</li> <li>- Signal strength - moving bar graph &amp; numeric value</li> <li>- Mode indication ("Peak")</li> <li>- Proportional left/right indication</li> <li>- Auto proportional left/right indication</li> <li>- Plug and Play automatic recognition of accessories</li> <li>- Line location - depth &amp; current measurement</li> <li>- Sonde location - depth measurement</li> <li>- Gain level (in dB)</li> <li>- Frequency selected</li> <li>- Battery condition</li> <li>- Speaker volume</li> <li>- Operating frequency</li> <li>- Configuration menu &amp; submenus</li> <li>- Start up screen – product software revision</li> <li>- Customer definable start up screen</li> </ul> |
| <b>Configuration</b>                                      | <p>Intuitive setup menu enables user to configure:</p> <ol style="list-style-type: none"> <li>1. About – software revision</li> <li>2. Setup frequency selection to toggle by "F" pushbutton</li> <li>3. Setup location mode selection to toggle by "M" pushbutton</li> <li>4. Sonde / line location</li> <li>5. Units of measure (feet/meter)</li> <li>6. Power and radio modes – 50Hz or 60Hz environments</li> <li>7. Sound (Pitch) – normal/modulated</li> <li>8. Language</li> <li>9. Continuous depth/current options</li> <li>10. Loudspeaker level</li> <li>11. Backlight</li> </ol>  |
| <b>Pre-defined Frequencies</b>                            | 982Hz, 9.8 kHz, 83.1 kHz, Power 50, Power 60  |
| <b>Operating Modes</b>                                    | <ul style="list-style-type: none"> <li>- Peak</li> <li>- Sonde</li> <li>- Metrotech classic Left /Right indication</li> <li>- Metrotech classic Left /Right indication auto gain</li> </ul>   |
| <b>Gain Control</b>                                       | Manual gain using "+" or "-" with one touch to return to center (60% of FSD)  |
| <b>Performance using Single Undistorted Signal Source</b> | Locate pinpointing accuracy: <ul style="list-style-type: none"> <li>- over 9ft (3m) – 5% of depth</li> <li>- up to 9ft (3m) – 3% of depth</li> </ul>  |
|   | Depth measurement accuracy: <ul style="list-style-type: none"> <li>- 3% of depth</li> </ul>   |
|   | Current measurement accuracy: <ul style="list-style-type: none"> <li>- 5% of actual current – over 9ft (3m)</li> <li>- 3% of actual current – up to 9ft (3m)</li> </ul>   |
|   | Depth range: <ul style="list-style-type: none"> <li>- Dependent on strength of signal radiating to locator</li> </ul>   |

## D. Sensitivity

| Mode             | Sensitivity at 3.2ft (1m) |
|------------------|---------------------------|
| 50Hz/ Power Mode | 7.5 mA                    |
| 60Hz/ Power Mode | 7.5 mA                    |
| Radio Mode       | 20 $\mu$ A                |

## E. Environmental

| Item               | Parameter   |
|--------------------|---|
| 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    | 38.6lbs (17.5kg) (with transmitter)                       |
| Shipping Dimension | 17.5in(L) x 11.2in(W) x 30.1in(H) (765mm x 285mm x 445mm) |

## F. Warranty

| Item     | Parameter |
|----------|-----------|
| Warranty | 12 months |

## G. Upgrade

| Item     | Parameter   |
|----------|---|
| Software | Software can be upgraded using a PC with USB port. Programs & locator software will be available via email. |

## H. Features

| Item              | Parameter  |
|-------------------|--|
| Enhanced Features | <ul style="list-style-type: none"> <li>- Reduced size and weight with enhanced ergonomic design</li> <li>- Improved power management and Lithium-ion rechargeable batteries provide longer battery life ( 300% more)</li> <li>- Auto detects batteries type (Lithium-ion/Alkaline) and displays appropriate status.</li> <li>- Non-reflective display</li> <li>- Enable/Disable auto shut off mode</li> <li>- USB data logging</li> <li>- Analogue channel</li> <li>- Overload protection</li> </ul> |

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

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All products are designed and manufactured in accordance with ISO 9001:2008

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