



**VIVAX**

**METROTECH**

# Loc-150Tx Transmitter

Technical Specifications V1.1



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## A. Typical Applications

Item	Parameter
Description	Pipeline defect mapper transmitter
Designed Use	<ul style="list-style-type: none"> <li>- Long distance pipeline location</li> <li>- Transmitting active signals for the location of buried pipes and cables</li> <li>- Transmitting a fault-find frequency for the detection of cable faults</li> <li>- Transmitting active signals for the location of coating defects on buried pipes</li> </ul>

## B. Loc-150Tx Transmitter Characteristics

Item	Parameter		
Construction	High-impact thermoplastic (ABS) injection molded housing		
Weight	27.5lbs (12.5kg)		
Dimension	16.7in(L) x 10.3in(W) x 12.9in(H) (425mm x 262mm x 328mm)		
Display Type	Monochrome dot matrix display 2.4in x 1.3in (60mm x 32mm)		
Environmental	IP54 and NEMA 4		
Temperature Range	<ul style="list-style-type: none"> <li>- Operating : - 4°F to 122°F (-20°C to 50°C)</li> <li>- Storage : -40°F to 140°F (-40°C to 60°C)</li> </ul>		
Power Supply	<ul style="list-style-type: none"> <li>- Cathodic Protection (nominally 26V - 60V DC) (max 14A)</li> <li>- 100 – 250V AC mains power (max 4A)</li> <li>- or 12V DC external supply or higher (output power is limited when using 12V DC) (max 8A)</li> </ul>		
External Connectors	<ul style="list-style-type: none"> <li>- 100 – 250V AC mains input - three pin “Multi-Con-X” connector (Male)</li> <li>- DC Input - two pin “Multi-Con-X” connector (Male)</li> <li>- Transmitter output - two pin “Multi-Con-X” connector (Female)</li> <li>- Fuse sockets – mains input fuse (5A, 250V), output fuse (10A, 250V)</li> </ul>		
Output Protection	Output fuse protected against accidental connection to up to AC/DC 250V		
Approvals	<table border="0" style="width: 100%;"> <tr> <td style="vertical-align: top; width: 50%;"> <ul style="list-style-type: none"> <li>- Complies with European standard CE (Directive 99/5/EC) (Pending)                             <ul style="list-style-type: none"> <li>• EN 55011</li> <li>• EN 61000-4-3</li> <li>• EN 61000-4-2: A1 &amp; A2</li> <li>• EN 61000-4-8: A1</li> <li>• ETSI EN 300 330-2</li> </ul> </li> </ul> </td> <td style="vertical-align: top; width: 50%;"> <ul style="list-style-type: none"> <li>- Complies with FCC Rules Part 15 (Pending)                             <ul style="list-style-type: none"> <li>• CFR 47 part 2</li> <li>• CFR 47 Part 15</li> </ul> </li> </ul> </td> </tr> </table>	<ul style="list-style-type: none"> <li>- Complies with European standard CE (Directive 99/5/EC) (Pending)                             <ul style="list-style-type: none"> <li>• EN 55011</li> <li>• EN 61000-4-3</li> <li>• EN 61000-4-2: A1 &amp; A2</li> <li>• EN 61000-4-8: A1</li> <li>• ETSI EN 300 330-2</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>- Complies with FCC Rules Part 15 (Pending)                             <ul style="list-style-type: none"> <li>• CFR 47 part 2</li> <li>• CFR 47 Part 15</li> </ul> </li> </ul>
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	<ul style="list-style-type: none"> <li>• ETSI EN 301 489-1</li> <li>• ETSI EN 301 489-3</li> </ul>
<b>Standard Accessories (Supplied With Transmitter)</b>	<ul style="list-style-type: none"> <li>- 1 x direct connection lead (with two cables each 10ft (3.5m) long with crocodile clips)</li> <li>- 1 x DC input lead (with two cables each 10ft (3.5m) long with crocodile clips)</li> <li>- 1 x 9ft (3m) mains input lead</li> </ul>

## C. Loc-150Tx Transmitter Operational

Item	Parameter
Information Displayed	<ul style="list-style-type: none"> <li>- Output Frequency</li> <li>- Output Current setting</li> <li>- Output Current</li> <li>- Output Voltage (info menu)</li> <li>- Operating Temperature (info menu)</li> </ul>
Signal Application	<b>Direct connection</b> - applies signal directly by clipping one output lead to the pipe, the other to an independent ground or anode bed.
Transmitting Frequencies (Varies by Country & Market)	<ul style="list-style-type: none"> <li>- 98Hz, 128Hz, 512Hz, 640Hz, 3Hz/98Hz, 3Hz/128Hz, 4Hz/98Hz, 4Hz/128Hz;</li> <li>- ELF1-3Hz/6Hz/98Hz;</li> <li>- ELF2-3Hz/6Hz/128Hz;</li> <li>- ELF3-4Hz/8Hz/98Hz;</li> <li>- ELF4-4Hz/8Hz/128Hz;</li> <li>- 3Hz/6Hz/512Hz;</li> <li>- 3Hz/6Hz/640Hz;</li> <li>- 4Hz/8Hz/512Hz;</li> <li>- 4Hz/8Hz/640Hz</li> </ul> <p>Other multiple frequencies in the range of 3Hz to 2kHz available upon request.</p>
Transmitting Mode Power Output	<ul style="list-style-type: none"> <li>- Powered by AC: 150W</li> <li>- Powered by DC: 12-28V, 50W; &gt; 28V, 150W</li> </ul>
Output Voltage	Maximum output voltage = 120V RMS
Output Current	Maximum output current = 4A RMS with up to two frequencies. Output limited to 3A RMS with three simultaneous frequencies.
Controls	<p>Two Rotary/Push control knobs to select:</p> <ul style="list-style-type: none"> <li>- Frequency</li> <li>- Output level</li> <li>- Information</li> <li>- ACTIVE/STANDBY pushbutton</li> </ul> <p>One On/OFF pushbutton</p>

<b>Compatible Receivers</b>	vLoc3-DM, vLocDM2, vLocDM
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## D. Shipping and Packaging

Item	Parameter
<b>Transmitter Shipping Weight</b>	44.1lbs (20kg)
<b>Transmitter Shipping Dimensions</b>	21.7in(L) x 15.2in(W) x 18.3in(H) (550mm x 385mm x 465mm)

## E. Warranty

Item	Parameter
<b>Warranty</b>	<ul style="list-style-type: none"><li>- Two years</li><li>- Optional extended warranty available</li></ul>

All products are designed and manufactured per ISO 9001:2015.

**Disclaimer:** Product and accessory specifications and availability information are subject to change without prior notice.