



**VIVAX**  
**METROTECH**

# Loc3-25Tx Transmitter

Technical Specifications V1.0



**VIVAX**  
**METROTECH**

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## A. Typical Applications

Item	Parameter
<b>Description</b>	Low-Frequency transmitter for buried utility locating and pipeline defect mapping
<b>Designed Use</b>	<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 active signals for the location of coating defects on buried pipes</li> </ul>

## B. Characteristics

Item	Parameter									
<b>Construction</b>	High-impact ABS plastic									
<b>Weight</b>	7.05lbs (3.19kg)									
<b>Dimension</b>	13.1in(L) x 7.2in(W) x 7.3in(H) (332mm x 182mm x 185mm)									
<b>Display Type</b>	<ul style="list-style-type: none"> <li>- Monochrome-dot-matrix graphic LCD display with LED backlight</li> <li>- 2.4in x 1.3in (60mm x 32mm)</li> </ul>									
<b>Power Supply</b>	<ul style="list-style-type: none"> <li>- Li-Ion rechargeable battery tray with AC to DC adapter (Optional 12 x D Cell Alkaline battery tray (output limited to 10W))</li> </ul>									
<b>Battery Life</b>	<table border="0"> <thead> <tr> <th><b>Output Power</b></th> <th><b>Alkaline</b></th> <th><b>Li-Ion (Rechargeable)</b></th> </tr> </thead> <tbody> <tr> <td>25-watt</td> <td>N/A</td> <td>2 hours</td> </tr> <tr> <td>*10-watt</td> <td>4 hours</td> <td>6 hours</td> </tr> </tbody> </table> <p>*When using Alkaline batteries the output is limited to 10-watts  <i>At 70°F (21°C) - continuous use (based on the battery type and quality)</i>  <i>Li-Ion batteries will withstand 500 charging life cycles</i></p>	<b>Output Power</b>	<b>Alkaline</b>	<b>Li-Ion (Rechargeable)</b>	25-watt	N/A	2 hours	*10-watt	4 hours	6 hours
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25-watt	N/A	2 hours								
*10-watt	4 hours	6 hours								
<b>Environmental</b>	IP65 and NEMA 4									
<b>External Connectors</b>	<ul style="list-style-type: none"> <li>- 1 x speakOn® connector</li> <li>- 1 x fuse (output protection) 4A/250V</li> <li>- 1 x Mini-USB socket</li> <li>- 1 x socket for battery charger &amp; 19V DC power in</li> </ul>									
<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>Compliance/Approvals</b>	<table border="0"> <tr> <td> <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> </ul> </li> </ul> </td> <td> <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> </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> </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> </ul> </li> </ul>							
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	<ul style="list-style-type: none"> <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> <li>ETSI EN 301 489-1</li> <li>ETSI EN 301 489-3</li> </ul>	<ul style="list-style-type: none"> <li>CFR 47 Part 15</li> </ul>
<b>Manufacturing</b>	Designed and manufactured following ISO 9001:2015.	
<b>Standard Accessories (Supplied With Transmitter)</b>	<ul style="list-style-type: none"> <li>Direct Connection Leads (10ft (3.5m) red/black leads)</li> <li>Ground stake</li> <li>Li-ion Rechargeable battery tray</li> <li>DC/AC Power supply for rechargeable battery</li> <li>Transmitter carry bag</li> <li>Vehicle DC power supply</li> </ul>	
<b>Compatible Accessories Options</b>	<ul style="list-style-type: none"> <li>4in (100mm) Loc3-25Tx transmitter clamp</li> <li>5in (125mm) Loc3-25Tx transmitter clamp</li> </ul>	

## C. Operational

Item	Parameter	
<b>Information Displayed</b>	<ul style="list-style-type: none"> <li>Current (numeric)</li> <li>Volts</li> <li>Resistance</li> <li>Frequency of output signal</li> <li>Beeper volume (three levels &amp; off)</li> </ul>	<ul style="list-style-type: none"> <li>Output Step bar graph showing the proportion of signal current successfully applied</li> <li>High voltage warning if utility-to-ground potential exceeds 21V (DC or AC peak)</li> <li>Animation icon confirming connection mode (Direct connection or Clamp)</li> </ul>
<b>Transmitting Modes</b>	<ul style="list-style-type: none"> <li><b>Direct connection mode</b> - applies a 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> – applies a signal using an inductive clamp (aka toroid or coupler) placed around the target pipe or cable. *Compatible frequencies of 8kHz and above.</li> <li>*Modes are automatically selected when an accessory is plugged in.</li> </ul>	

### Transmitting Frequency by Mode

<b>Direct Connection Mode</b>	<ul style="list-style-type: none"> <li>3Hz/98Hz</li> <li>3Hz/128Hz</li> <li>4Hz/98Hz</li> <li>4Hz/128Hz;</li> <li>ELF1-3Hz/6Hz/98Hz;</li> </ul>	<ul style="list-style-type: none"> <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>
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<b>Storage humidity</b>	≤75% RH
<b>Weight</b>	Battery Tray: 3.31lbs. (1.5kg)
<b>Dimension</b>	13.1in(L) x 7.2in(W) x 2.9in(H) (332mm x 182mm x 73mm)
<b>Shipping Weight</b>	4.6lbs (2.1kg) (Battery Tray)
<b>Shipping Dimension</b>	16.1in(L) x 10.2in(W) x 6.7in(H) (410mm x 260mm x 170mm)
<b>Warranty</b>	One Year

## E. Shipping and Packaging

Item	Parameter
<b>Shipping Weight</b>	14.4lbs. (6.5kg)
<b>Shipping Dimensions</b>	15.7in(L) x 11.8in(W) x 8.7in(H) (400mm x 300mm x 220mm)

## F. Warranty

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

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