

**VIVAX**  
**METROTECH**

# Loc3-10Tx

Technical Specification V1.0



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## A. Typical Applications

Item	Parameter
Description	- Pipe & cable locator transmitter
Designed Use	Transmitting active signals for the location of buried pipes and cables. Transmitting a fault-find frequency for the detection of cable faults

## B. Characteristics

Item	Parameter												
Construction	High-impact ABS plastic												
Weight	With Alkaline battery tray: 9.9lbs (4.4kg) With Rechargeable battery tray: 7.15lbs (3.24kg)												
Dimensions	13.1in(L) x 7.2in(W) x7.3in(H) (332mm x 182mm x 185mm)												
Display Type	- Monochrome-dot-matrix graphic LCD display with LED backlight - 2.4in x 1.3in (60mm x 32mm)												
Power Options	- 12 x alkaline "D" cells - 12~22V external DC power - Optional Li-Ion rechargeable battery pack – 18V												
Battery Life	<table border="0"> <thead> <tr> <th>Output Power</th> <th>Alkaline</th> <th>Li-Ion (Rechargeable)</th> </tr> </thead> <tbody> <tr> <td>1 watt</td> <td>25 hours</td> <td>50 hours</td> </tr> <tr> <td>5 watt</td> <td>6 hours</td> <td>10 hours</td> </tr> <tr> <td>10 watt</td> <td>4-5 hours</td> <td>6 hours</td> </tr> </tbody> </table> <p><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>	Output Power	Alkaline	Li-Ion (Rechargeable)	1 watt	25 hours	50 hours	5 watt	6 hours	10 hours	10 watt	4-5 hours	6 hours
Output Power	Alkaline	Li-Ion (Rechargeable)											
1 watt	25 hours	50 hours											
5 watt	6 hours	10 hours											
10 watt	4-5 hours	6 hours											
Environmental	- IP54 and NEMA 4												
External Connectors	- 1 x 3 pin connection socket (XLR) - 1 x fuse (output protection) 1.6A/250V - 1 x Mini-USB socket - 1 x socket for battery charger & 12V DC power in												
Temperature Range	Operating: -4°F to 122°F (-20°C to 50°C) Storage: -40°F to 140°F (-40°C to 60°C)												
Compliance/Approvals	- 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> <li>- Complies with FCC rules part 15</li> <li>• CFR 47 part 2</li> <li>• CFR 47 part 15</li> </ul>
<b>Standard Accessories (Supplied with Transmitter)</b>	<ul style="list-style-type: none"> <li>- Direct Connection Leads (XLR plug with 10ft (3.5m) red/black leads)</li> <li>- Ground stake</li> <li>- Alkaline battery tray</li> <li>- 12 x D Cell alkaline batteries</li> <li>- Soft carry bag</li> </ul>
<b>Compatible Accessories Options</b>	<ul style="list-style-type: none"> <li>- 2in (50mm) transmitter clamp</li> <li>- 4in (100mm) transmitter clamp</li> <li>- 5in (125mm) transmitter clamp</li> <li>- 18-inch (450mm) flexible transmitter clamp</li> <li>- LPC Separation Filter (to connect and use transmitter on lines carrying up to 240V AC)</li> <li>- LCC Live Cable Connector (to connect and use transmitter on lines carrying up to 480V AC)</li> <li>- Rechargeable battery tray – Custom Li-Ion battery tray and charger (input DC12V 3A, output DC18V-93.6 Wh)</li> <li>- 12V DC vehicle power lead for powering and charging the optional rechargeable battery from a vehicle</li> <li>- 100-240V AC power supply for powering and charging the optional rechargeable battery from a mains power supply</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> </ul>

	<ul style="list-style-type: none"> <li>- High voltage warning if volts on line exceed 30V AC</li> <li>- Beeper volume (three levels &amp; off)</li> <li>- Battery condition icon</li> <li>- Bar graph showing proportion of signal successfully applied</li> <li>- Animation icon confirming connection mode (Induction, Direct connection, Clamp)</li> <li>- TX-RX control connection status (if fitted)</li> </ul>
<b>Transmitting Modes</b>	<ul style="list-style-type: none"> <li>- <b>Induction mode</b> – 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> – applies signal using an inductive clamp (aka toroid or coupler) that is placed around the target pipe or cable</li> </ul> <p>* Modes are selected automatically when accessories are plugged in. The default mode (no accessories) is Induction.</p>
<b>Transmitting Frequency by Mode</b>	
<b>Induction Mode</b>	<p>Multiple induction frequencies between 8.19 kHz and 200 kHz.</p> <p>* Vivax-Metrotech reserves the right to change this list.</p>
<b>Direct Connection Mode</b>	<p>Available frequencies between 98Hz and 200 kHz with default frequencies in: 512Hz, 8.19 kHz, 33 kHz, 65 kHz, 200 kHz.</p>
<b>Clamp Mode</b>	<p>Available frequencies between 8Hz and 200 kHz with default frequencies in: 8.19 kHz, 33 kHz, 65 kHz.</p>
<b>Transmitting Mode Power Output</b>	<p>In accordance with FCC part 15:</p> <ul style="list-style-type: none"> <li>- <i>Frequencies under 45 kHz - 10 watts</i></li> <li>- <i>Frequencies over 45 kHz - 1 watt</i></li> </ul>
<b>Maximum Output Voltage</b>	50V RMS
<b>Maximum Output Current</b>	1A RMS constant current
<b>Output Protection</b>	Output protected against accidental momentary connection to up to 240V AC
<b>Audio Indication</b>	<ul style="list-style-type: none"> <li>- Connection quality – Fast beep sound showing the better signal applied</li> <li>- Beep to confirm action</li> </ul>
<b>Controls</b>	<ul style="list-style-type: none"> <li>- Use pushbuttons to select: <ul style="list-style-type: none"> <li>• On/Off</li> <li>• Frequency</li> <li>• Output level</li> </ul> </li> </ul>

	<ul style="list-style-type: none"> <li>Information (volts &amp; resistance) / Setting (volume, frequency &amp; multi-mode)</li> </ul>
<b>Compatible Receivers</b>	vLoc3-Pro, vLoc3-5000, vLoc3-9800, vLocPro series, vLocPro2 series

## D. Rechargeable Batteries Pack Accessory

Item	Parameter
<b>Description</b>	Loc3-10Tx Transmitter optional Li-Ion rechargeable battery tray with charger
<b>Input/Output</b>	Input DC12V 3A Output DC18V-93.6 Wh
<b>Battery Type</b>	Li-Ion battery
<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>Weight</b>	Battery Tray: 3.31lbs. (1.5kg) Transmitter with battery tray: 7.1lbs. (3.2kg)
<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 Years

## E. Shipping and Packaging

Item	Parameter
<b>Shipping Weight</b>	With alkaline battery tray: 15lbs. (6.8kg) With rechargeable battery tray: 12.3lbs. (5.6kg)
<b>Shipping Dimension</b>	15.7in(L) x 11.8in(W) x 8.7in(H) (400mm x 300mm x 220mm)

## F. Warranty

Item	Parameter
<b>Warranty</b>	Two years (Transmitter with alkaline battery tray) Extended warranty available

## G. Firmware Updates

Item	Parameter
Firmware	The firmware can be updated using a PC with the MyLocator3 desktop app and mini-USB cable.
Software	Download the free MyLocator3 app from our website

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

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