

VIVAX
METROTECH

Loc3-10Tx

Technical Specification V1.2



Worldwide Locations

World Headquarters, United State of America

Vivax-Metrotech Corporation

3251 Olcott Street, Santa Clara, CA 95054, USA

T/Free : 800-638-7682
Tel : +1-408-962-9990
Fax : +1-408-734-1799
Email : service@vxmt.com
Website : www.vivax-metrotech.com

Central/South America and the Caribbean

Ventas para América Latina

3251 Olcott Street, Santa Clara, CA 95054, USA

T/Free : 800-624-6210
Tel : +1-408-734-1400
Tel : +1-408-734-1400
Website : www.vivax-metrotech.com
Email : VentasparaAmericaLatina@vxmt.com

Canada

Vivax Canada Inc.

41 Courtland Ave Unit 6, Vaughan, ON L4K 3T3, Canada

Tel : +1-289-846-3010
Fax : +1-905-752-0214
Website : www.vivax-metrotech.com
Email : CanadianSales@vxmt.com

United Kingdom

Vivax-Metrotech Ltd.

Unit 1, B/C Polden Business Centre, Bristol Road, Bridgwater, Somerset, TA6 4AW, UK

Tel : +44(0)1793 822679
Website : www.vivax-metrotech.com
Email : salesUK@vxmt.com

France

Vivax-Metrotech SAS

Technoparc - 1 allée du Moulin Berger, 69130 Ecully, France

Tel : +33(0)4 72 53 03 03
Fax : +33(0)4 72 53 03 13
Website : www.vivax-metrotech.com
Email : salesfrance@vxmt.com

Germany

Metrotech Vertriebs GmbHAm steinernen Kreuz 10a
D-96110 Schesslitz

Tel : +49 954 277 227 43
Email : serviceGermany@vxmt.com

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	- IP65 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"> • EN 55011 • EN 61000-4-2: A1 & A2 • EN 61000-4-3 • EN 61000-4-8: A1 • ETSI EN 300 330-2 • ETSI EN 301 489-1 • ETSI EN 301 489-3 - Complies with FCC rules part 15 • CFR 47 part 2 • CFR 47 part 15
Standard Accessories (Supplied with Transmitter)	<ul style="list-style-type: none"> - Direct Connection Leads (XLR plug with 10ft (3.5m) red/black leads) - Ground stake - Alkaline battery tray - 12 x D Cell alkaline batteries - Soft carry bag
Compatible Accessories Options	<ul style="list-style-type: none"> - 2in (50mm) transmitter clamp - 4in (100mm) transmitter clamp - 5in (125mm) transmitter clamp - 18-inch (450mm) flexible transmitter clamp - LPC Separation Filter (to connect and use transmitter on lines carrying up to 240V AC) - LCC Live Cable Connector (to connect and use transmitter on lines carrying up to 480V AC) - Rechargeable battery tray – Custom Li-Ion battery tray and charger (input DC12V 3A, output DC18V-93.6 Wh) - 12V DC vehicle power lead for powering and charging the optional rechargeable battery from a vehicle - 100-240V AC power supply for powering and charging the optional rechargeable battery from a mains power supply

C. Operational

Item	Parameter
Information Displayed	<ul style="list-style-type: none"> - Current (numeric) - Volts - Resistance - Frequency of output signal

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

	<ul style="list-style-type: none"> Information (volts & resistance) / Setting (volume, frequency & multi-mode)
Compatible Receivers	vLoc3-Pro series, vLoc3-ML, vLoc3-9800, vLocPro series, vLocPro2 series, VM-510FFL+

D. Rechargeable Batteries Pack Accessory

Item	Parameter
Description	Loc3-10Tx Transmitter optional Li-Ion rechargeable battery tray with charger
Input/Output	Input DC12V 3A Output DC18V-93.6 Wh
Battery Type	Li-Ion battery
Temperature Range	Operating: -4°F to 122°F (-20°C to 50°C) Storage: -40°F to 140°F (-40°C to 60°C)
Weight	Battery Tray: 3.31lbs. (1.5kg) Transmitter with battery tray: 7.1lbs. (3.2kg)
Dimension	13.1in(L) x 7.2in(W) x 2.9in(H) (332mm x 182mm x 73mm)
Shipping Weight	4.6lbs (2.1kg) (Battery Tray)
Shipping Dimension	16.1in(L) x 10.2in(W) x 6.7in(H) (410mm x 260mm x 170mm)
Warranty	One Years

E. Shipping and Packaging

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

F. Warranty

Item	Parameter
Warranty	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.