

VIVAX
METROTECH

Loc3-5Tx

Technical Specification V1.0



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.comWebsite: 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.comEmail : 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.comEmail : CanadianSales@vxmt.com

United Kingdom

Vivax-Metrotech Ltd.

Unit 18-19, Woodside Road, South Marston Industrial Estate, Swindon, SN3 4WA, UK

Free Phone: 0800 0281811

Tel : +44(0)1793 822679

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.comEmail : 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: 8.6lbs (3.9kg) 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	- 8 x alkaline "D" cells - 12~22V external DC power - Optional Li-Ion rechargeable battery pack – 18V
Battery Life	Output Power Alkaline Li-Ion (Rechargeable) 1-watt 25 hours 50 hours 5-watt 6 hours 10 hours <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>
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) • EN 55011

	<ul style="list-style-type: none"> • 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 - 8 x D Cell alkaline batteries
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 - High voltage warning if volts on line exceed 30V AC - Beeper volume (three levels & off)

	<ul style="list-style-type: none"> - 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	Multiple induction frequencies between 8.19 kHz and 200 kHz.
Direct Connection Mode	Available frequencies between 98Hz and 200 kHz with default frequencies in: 512Hz, 8.19 kHz, 33 kHz, 65 kHz, 200 kHz.
Clamp Mode	Available frequencies between 8Hz and 200 kHz with default frequencies in: 8.19 kHz, 33 kHz, 65 kHz.
Transmitting Mode Power Output	In accordance with FCC part 15: <ul style="list-style-type: none"> - <i>Frequencies under 45 kHz - 5 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 • Information (volts & resistance) / Setting (volume, frequency & multi-mode)
Compatible Receivers	vLoc3-Pro, vLoc3-5000, vLoc3-9800, vLocPro series, vLocPro2 series

D. Rechargeable Battery Tray (Optional Accessory)

Item	Parameter
Description	Loc3-5Tx 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 Year

E. Shipping and Packaging

Item	Parameter
Shipping Weight	With alkaline battery tray: 13.9lbs. (6.3kg) 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.