

VIVAX
METROTECH

vLoc3-Pro

Technical Specifications V1.3



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	Multi-purpose precision locator receiver
Uses	Locating & pinpointing the position of buried pipes, cables, and sondes

B. Characteristics

Item	Parameter
Construction	High impact thermoplastic (ABS) injection molded housing
Weight	4.6lbs (2.1kg)
Dimensions	12.6in(L) x 4.9in(W) x 26.6in(H) (321mm x 124mm x 676mm)
Display Type	Transmissive 480 x 272 Pixel, 16-bit Color, High Visibility LCD, 4.3"
Receiver Antennas	Two sets of 3D antennas
Battery	<ul style="list-style-type: none"> - Six x AA Alkaline batteries - Rechargeable custom Lithium-ion batteries with 100-240V AC mains charger
Battery Life	<ul style="list-style-type: none"> - Alkaline – typically 12 hours intermittent use at 70°F (21°C) - Lithium-ion – typically 27 hours intermittent use at 70°F (21°C) (with full backlight turned on). Re-charging cycles approx. 500 times life cycle. Battery life varies with temperature.
Environmental	<ul style="list-style-type: none"> - IP65 and NEMA 4
External Connectors	<ul style="list-style-type: none"> - Accessory Socket – to change the internal batteries and attach accessories - Mini USB socket for data transfer and programming
Temperature Range	<ul style="list-style-type: none"> - Operating: -4°F to 122°F (-20°C to 50°C) - Storage: -40°F to 140°F (-40°C to 60°C)
Compliance and Approvals	<ul style="list-style-type: none"> - 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

	<ul style="list-style-type: none"> - Complies with FCC Rules Part 15 <ul style="list-style-type: none"> • CFR 47 part 2 • CFR 47 Part 15
Standard Accessories (comes with receiver)	<ul style="list-style-type: none"> - USB data transfer cable - Custom lithium-ion battery pack - 100-240V AC mains charger () - Six x AA Alkaline battery holder - User handbook
Compatible Accessory Options	<ul style="list-style-type: none"> - A-frame fault locator - Remote Antenna (Stethoscope) - Bluetooth Module - Factory Fitted GPS Module - Vehicle Charging DC Lead - Factory fitted radio link to model Loc3-10Tx transmitter - Range of Sondes (waterproof self-contained transmitters for use in pipes & ducts)

C. Operational

Item	Parameter
Information Displayed	<ul style="list-style-type: none"> - Standard "Bar graph" Locate with Peak, Peak with arrows, Null, Broad, Delta Null, Omni Directional Peak, Omni Directional Broad - Transverse Graph Mode - visual assessment of signal quality and distortion - Dedicated Sonde Locate - directing arrow to move to the Sonde position along the polar axis - Vector Screen - fully automatic locate including offset, depth and locate uncertainty - Plan View Screen - fully automatic graphical representation of the cable position independent of cable direction - Signal strength - moving bar graph & numeric value - Proportional left/right indication - Compass: full 360°-line direction indicator - Plug and play automatic recognition of accessories - Accessory specific custom screens - Line location - depth & current measurement - Sonde location - depth measurement - Gain level (in dB) - Frequency selected

	<ul style="list-style-type: none"> - Battery condition - Speaker volume - Bluetooth and GPS status - Product configuration menu & submenus - Customer definable start up screen
Configuration	<p>Intuitive setup menu enables user to configure:</p> <ul style="list-style-type: none"> - Setup frequency selection to toggle by “f” pushbutton - Setup location mode selection to toggle by “m” pushbutton - Setup screen views selection to toggle by long press “m” pushbutton - Units of measure (feet/me) - Sound (Pitch) – normal/modulated - Language - Continuous depth/current options - Loudspeaker level - Backlight - Bluetooth pairing if fitted - Transmitter Radio Link if fitted - Warnings (Excessive Tilt, Overhead Signal, Shallow Cable, Signal Overload) - Auto shut down – configurable to power down at five minutes, ten minutes, or never
Data Logging	<ul style="list-style-type: none"> - 50 million record internal storage - All parameters stored at each location including depth, current, date, time, mode, gain setting, frequency, locate uncertainty, longitude, latitude and height above sea-level - If connected to GPS (via Bluetooth) data also recorded with coordinates and date time
Data Transfer	<p>Uses Vivax-Metrotech “MyLocator3” software application tool available free of charge from www.vivax-metrotech.com. Data can be saved in xlx, txt, shp, kml (Google earth) formats.</p>
Operating Frequencies	<ul style="list-style-type: none"> - Configurable frequencies from 16Hz to 200 kHz <ul style="list-style-type: none"> • Power 50Hz and 60Hz • Radio 22.7kHz, 10kHz bandwidth - Optional “Signal Direction” (SD) - enhanced product model giving direction of outgoing current. <ul style="list-style-type: none"> • SD-USA: 256Hz/512Hz, SD-EUROPE: 320Hz/640Hz
Operating Modes	<ul style="list-style-type: none"> - Classic Locate (2-section Bar graph) - Transverse Graph Mode - Plan View (Omni Directional)

	<ul style="list-style-type: none"> - Vector Locate (Lateral Position & Depth) - Sonde Locate 	
Gain / Scaling Control	Manual gain using "+" or "-" with one touch to return to center (60% of FSD) "+" or "-" used to rescale the vector screen dependent on cable depth and offset	
Accuracy	Locate pinpointing accuracy:	<ul style="list-style-type: none"> - Over 9ft (3m) – 5% of depth - Up to 9ft (3m) – 3% of depth
	Depth measurement accuracy:	3% of depth
	Current measurement accuracy:	<ul style="list-style-type: none"> - 5% of actual current – over 9ft (3m) - 3% of actual current – up to 9ft (3m)
	Depth range:	Dependent on strength of signal radiating to locator
	Performance rated using a single undistorted signal source	
Compatible Transmitters	Loc3-5Tx, Loc3-10Tx, Loc3-1Tx, Loc-5STx, Loc-5DTx	

D. Shipping and Packaging

Item	Parameter
Shipping Weight	10.5lbs (4.75kg) (receiver only)
Shipping Dimension	16.5in(L) x 11in(W) x 27.6in(H) (420mm x 280mm x 700mm) (receiver only)

E. Warranty

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

F. Firmware Updates

Item	Parameter
Software	Software can be upgraded using a PC with USB port. Programs & locator software are available via MyLocator3 app

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.