



VIVAX
METROTECH

vLoc3-XLF

Technical Specifications V1.5



Worldwide Locations

World Headquarters, United States of America

Vivax-Metrotech Corporation

3251 Olcott Street, Santa Clara, CA 95054, USA

T/Free : 1-800-446-3392

Tel : +1-408-734-3880

Fax : +1-408-734-1415

Website: www.vivax-metrotech.com

Email : SalesUSA@vxmt.com

Central/South America and the Caribbean

Ventas para América Latina

3251 Olcott Street, Santa Clara, CA 95054, USA

T/Free : 1-800-446-3392

Tel : +1-408-734-3880

Fax : +1-408-743-5597

Website: www.vivax-metrotech.com

Email : LatinSales@vxmt.com

Canada

Vivax Canada, Inc.

41 Courtland Ave Unit 8, Vaughan, ON L4K 3T3, Canada

Tel : +1-289-846-3010

Fax : +1-905-752-0214

Website: www.vivax-metrotech.ca

Email : SalesCA@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.co.uk

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.fr

Email : SalesFR@vxmt.com

Germany

Metrotech Vertriebs GmbH

Am steinernen Kreuz 10a
96110 Schesslitz

Tel : +49 9542 77227-43

Website: www.vivax-metrotech.de

Email : SalesEU@vxmt.com

China

Vivax-Metrotech (Shanghai) Ltd.

Building 10, Lane 1158 Zhongxin Rd.,
Songjiang District, Shanghai, China, 201615

Tel : +86-21-5109-9980

Website: www.vivax-metrotech.com

Email : SalesCN@vxmt.com.cn

A. Description and Typical Applications

Item	Parameter
Model Name	vLoc3-XLF
Model Number	VX227-01
Description	Multi-purpose low-frequency precision locator receiver
Intended Use	Locating & pinpointing the position of long-line cables and pipelines

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	High-Visibility Color Display, 4.3"/10cm with 480 x 272 resolution
Receiver Antennas	Two sets of Omnidirectional Antennas, each comprising: - Two Compass antennas - Two Horizontal antennas - Two Vertical antennas
Batteries	- Six x AA Alkaline batteries - Rechargeable custom Lithium-ion batteries with 100-240V AC mains charger
Battery Life	- Alkaline – typically 12 hours of intermittent use at 70°F (21°C) - Lithium-ion – typically 27 hours of intermittent use at 70°F (21°C) *With backlight activated, Battery life varies with temperature; re-charging cycles are approximately 500 times the life cycle
Environmental	IP65
External Connectors	- Accessory and Charging Socket: To charge the internal batteries and attach plug-and-play accessories - Mini USB Port - for data transferring and software updates
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 and Approvals	- Complies with European standard CE (Directive 99/5/EC) - EN 55011 - EN 61000-4-2: A1 & A2 - ETSI EN 301 489-1 - ETSI EN 301 489-3 - ETSI EN 300 330-2

	• EN 61000-4-3 • EN 61000-4-8: A1 • ETSI EN 300 330-2	- Complies with FCC Rules Part 15 • CFR 47 part 2 • CFR 47 Part 15
Manufacturing	Designed and manufactured per ISO 9001:2015	
What's In the Box	- vLoc3-XLF Receiver - USB data transfer cable - Custom lithium-ion battery pack - 100-240V AC mains charger - Six x AA Alkaline battery holder - User handbook - Soft carry bag	
Compatible Accessories	- A-frame fault locator - Remote Antenna (Stethoscope) - Bluetooth Module - Factory Fitted GPS Module - Vehicle Charging DC Lead - Tx-Link (Optional transmitter radio link to remotely operate the transmitter) - Range of Sondes (waterproof, self-contained transmitters for use in nonmetallic pipes & ducts)	

C. Operational

Item	Parameter
Information Displayed	Status Bar Information: - Antenna configuration: Peak, Peak with arrows, Broad Peak, Null, Delta Null, Omni Directional Peak, Omni Directional Broad - Line location - depth & current measurement - Battery condition - Speaker volume - Bluetooth and GNSS status (If installed) - Cellular connection status - Radio link to transmitter status (if installed) Locate screen (Classic display): - Signal strength - moving bar graph & numeric value - Bar graph color-coded, indicating distortion level - Peak level indicator - Proportional left/right indication - Compass: full 360°-line direction indicator - Gain level (in dB) - Frequency selected - Depth and current - Warnings (if activated) - Plug and play automatic recognition of accessories

	- Accessory specific custom screens Information screen: - GPS coordinates - Current measurement and depth - Logging options Customer definable start-up screen
Locate Perspectives	- Classic Locate – moving bar graph with the numeric value showing signal strength - Vector Locate Screen – fully automatic locate including offset, depth and locate uncertainty - Transverse Graph Screen - visual assessment of locate quality and distortion - Plan View Screen – fully automatic graphical representation of the cable position independent of cable direction, including depth/current and locate uncertainty. - Sonde Locate Screen – directing arrow to move to the Sonde position along the polar axis
Configuration	The intuitive setup menu enables the user to configure: - Set up frequency selection to toggle by "f" pushbutton - Setup location mode selection to toggle by "m" pushbutton - Setup screen view selection to toggle by long press "m" pushbutton - Units of measure (feet/meters) - Sound (Pitch) – normal or modulated - Language - Continuous depth and current options - Loudspeaker level - Backlight - Bluetooth pairing, if installed - Transmitter Radio Link if installed - 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	- 50 million records of internal storage - Data can also be transferred for storage via cellular connectivity into the cloud using the Vivax-Metrotech application, VMMap - All parameters stored at each location, including depth, current, date, time, mode, gain setting, frequency, locate uncertainty, longitude, latitude, and height above sea level
Data Transfer	- Via the Vivax-Metrotech "MyLocator3" software application available free of charge from www.vivax-metrotech.com. Data can be saved in csv, klm, shp, txt, xls andxlsx formats. The transfer is via a USB cable connection from the locator to the host computer. Or - Cellular transfer to the VMMap Cloud (Vivax-Metrotech Cloud) via the VMMap mobile app

Operating Frequencies	- Configurable frequencies from 32Hz to 32.8kHz • Power 50Hz and 60Hz • Radio 22.7kHz - 10.0kHz bandwidth - Optional "Signal Direction" (SD) – Enhanced locate mode gives the transmitter's outgoing current direction. (SD-USA: 256Hz/512Hz, SD-EUROPE: 320Hz/640Hz)	
Operating Modes	- Peak, Peak with arrows, Broad Peak - Null, Delta Null - Omni Directional Peak Omni Directional Broad	
Gain Control	- Manual gain using "+" or "-" keys - One-touch of "+" or "-" keys rescales to 60% of the bar graph scale - In Vector Screen, "+" and "-" keys act as zoom feature to keep the target utility in view - In the Transverse Graph screen, the "+" key saves the screen graph, "-" key clears the screen	
Accuracy	Locate pinpointing accuracy:	- Over 9ft (3m) – 5% of the depth - Up to 9ft (3m) – 3% of the depth
	Depth measurement accuracy:	+/- 5% of the depth
	Current measurement accuracy:	- 5% of actual current – over 9ft (3m) - 3% of actual current – up to 9ft (3m)
	Depth range:	Dependent on the strength of the signal radiating to the locator
	*Performance rated using a single undistorted signal source	
Compatible Transmitters	Loc series transmitters, Loc3 series transmitters, FLS-2, and Loc-150Tx	

D. Shipping and Packaging

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

E. Warranty

Item	Parameter
Warranty	- Two years - Optional extended warranty available

F. Software Updates

Item	Parameter
Software	The software can be upgraded using a PC with a USB port. Program updates & locator software updates are available via the free MyLocator3 app.

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