

# vLoc3-XLF

### **Technical Specifications V1.4**











#### 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	
	<ul><li>Two Horizontal antennas</li><li>Two Vertical antennas</li></ul>	
Batteries	<ul> <li>Six x AA Alkaline batteries</li> <li>Rechargeable custom Lithium-ion batteries with 100-240V AC mains charger</li> </ul>	
Battery Life	<ul> <li>Alkaline – typically 12 hours intermittent use at 70°F (21°C)</li> <li>Lithium-ion – typically 27 hours intermittent use at 70°F (21°C)</li> <li>*With backlight activated, Battery life varies with temperature; re-charging cycles are approximately 500 times the life cycle</li> </ul>	
Environmental	IP65 and NEMA 4	
External Connectors	<ul> <li>Accessory and Charging Socket: To charge the internal batteries and attach plug-and-play accessories</li> <li>Mini USB Port - for data transferring and software updates</li> </ul>	
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) • ETSI EN 301 489-1 • ETSI EN 301 489-3	







	• EN 55011	• ETSI EN 300 330-2
	• EN 61000-4-2: A1 & A2	- Complies with FCC Rules Part 15
	• EN 61000-4-3	CFR 47 part 2
	• EN 61000-4-8: A1	• CFR 47 Part 15
	• ETSI EN 300 330-2	
Manufacturing	Designed and manufactured per ISO	9001:2015
What's In the Box	- vLoc3-XLF Receiver	- Six x AA Alkaline battery holder
	- USB data transfer cable	- User handbook
	- Custom lithium-ion battery pack	- Soft carry bag
	- 100-240V AC mains charger	
Compatible	- A-frame fault locator	- Vehicle Charging DC Lead
Accessories	- Remote Antenna (Stethoscope)	- Tx-Link (Optional transmitter radio link to
	- Bluetooth Module	remotely operate the transmitter)
	- Factory Fitted GPS Module	<ul> <li>Range of Sondes (waterproof, self-contained transmitters for use in nonmetallic pipes &amp;</li> </ul>

#### 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
	- <b>Vector Locate Screen</b> – fully automatic locate including offset, depth and locate uncertainty
	- Transverse Graph Screen - visual assessment of locate quality and distortion
	<ul> <li>Plan View Screen – fully automatic graphical representation of the cable position independent of cable direction, including depth/current and locate uncertainty.</li> </ul>
	- 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 views 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 record internal storage
30 0	<ul> <li>Data can also be transferred for storage, via cellular connectivity, into the cloud using the Vivax-Metrotech application, VMMAP</li> </ul>
	- 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	www.vivax-metrotech.com. Data can The transfer is via a USB cable conn Or	B" software application available free of charge from be saved in csv, klm, shp, txt, xls and xlsx formats ection from the locator to the host computer.  I (Vivax-Metrotech Cloud) via the VMMap mobile app
Operating Frequencies	<ul> <li>Configurable frequencies from 32Hz</li> <li>Power 50Hz and 60Hz</li> <li>Radio 22.7kHz - 10.0kHz bandwid</li> <li>Optional "Signal Direction" (SD) – En</li> </ul>	to 32.8kHz
Operating Modes	<ul><li>Peak, Peak with arrows, Broad Peak</li><li>Null, Delta Null</li><li>Omni Directional Peak Omni Directio</li></ul>	
Gain Control		to 60% of the bar graph scale at as zoom feature to keep target utility in view "+" key saves the screen graph, "–" key clears the
Accuracy	Locate pinpointing accuracy:	<ul> <li>Over 9ft (3m) – 5% of the depth</li> <li>Up to 9ft (3m) – 3% of the depth</li> </ul>
	Depth measurement accuracy:	+/- 5% of the depth
	Current measurement accuracy:	<ul> <li>5% of actual current – over 9ft (3m)</li> <li>3% of actual current – up to 9ft (3m)</li> </ul>
	Depth range:	Dependent on the strength of the signal radiating to the locator
	*Performance rated using a single undis	storted signal source
Compatible Transmitters	Loc series transmitters, Loc3 series transmitters	nsmitters, 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.



