VIVAX METROTECH

indepth UTILITY SOLUTIONS
281-969-8530

# vLoc3-XLF

## Technical Specifications V1.3

VIVAX METROTECH

## A. Typical Applications

| Item | Parameter |
|---|---|
| **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:<br>• Two Compass antennas<br>• Two Horizontal antennas<br>• Two Vertical antennas |
| **Batteries** | - Six x AA Alkaline batteries<br>- Rechargeable custom Lithium-ion batteries with 100-240V AC mains charger |
| **Battery Life** | - Alkaline – typically 12 hours intermittent use at 70ºF (21ºC)<br>- Lithium-ion – typically 27 hours intermittent use at 70ºF (21ºC)<br>*With backlight activated, Battery life varies with temperature; re-charging cycles are approximately 500 times the life cycle |
| **Environmental** | IP65 and NEMA 4 |
| **External Connectors** | - Accessory and Charging Socket: To charge the internal batteries and attach plug-and-play accessories<br>- Mini USB Port - for data transferring and software updates |
| **Temperature Range** | - Operating: -4ºF to 122ºF *(-20ºC to 50ºC)*<br>- Storage: -40ºF to 140ºF *(-40ºC to 60ºC)* |
| **Compliance and Approvals** | - Complies with European standard CE (Directive 99/5/EC)<br>• EN 55011<br>• EN 61000-4-2: A1 & A2<br>• EN 61000-4-3<br>• EN 61000-4-8: A1 |

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| | • ETSI EN 300 330-2<br>• ETSI EN 301 489-1<br>• ETSI EN 301 489-3<br>- Complies with FCC Rules Part 15<br>• CFR 47 part 2<br>• CFR 47 Part 15 |
| **Manufacturing** | ISO 9001:2015 |
| **Standard Equipment**<br>**(Comes with the receiver)** | - USB data transfer cable<br>- Custom lithium-ion battery pack<br>- 100-240V AC mains charger<br>- Six x AA Alkaline battery holder<br>- User handbook<br>- Soft carry bag |
| **Compatible Accessories** | - A-frame fault locator<br>- Remote Antenna (Stethoscope)<br>- Bluetooth Module<br>- Factory Fitted GPS Module<br>- Vehicle Charging DC Lead<br>- Tx-Link (Optional transmitter radio link to remotely operate the transmitter)<br>- Range of Sondes (waterproof, self-contained transmitters for use in nonmetallic pipes & ducts) |

## C. Operational

| Item | Parameter |
|---|---|
| **Information Displayed** | **Status Bar Information:**<br>- Antenna configuration: Peak, Peak with arrows, Broad Peak, Null, Delta Null, Omni Directional Peak, Omni Directional Broad<br>- Line location - depth & current measurement<br>- Battery condition<br>- Speaker volume<br>- Bluetooth and GNSS status (If installed)<br>- Cellular connection status<br>- Radio link to transmitter status (if installed)<br>**Locate screen (Classic display):**<br>- Signal strength - moving bar graph & numeric value |

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| | - Bar graph color-coded indicating distortion level<br>- Peak level indicator<br>- Proportional left/right indication<br>- Compass: full 360°-line direction indicator<br>- Gain level (in dB)<br>- Frequency selected<br>- Depth and current<br>- Warnings (if activated)<br>- Plug and play automatic recognition of accessories<br>- Accessory specific custom screens<br>**Information screen:**<br>- GPS coordinates<br>- Current measurement and depth<br>- Logging options<br>**Customer definable start-up screen** |
| **Locate Perspectives** | - **Classic Locate** – moving bar graph with the numeric value showing signal strength<br>- **Vector Locate Screen** – fully automatic locate including offset, depth and locate uncertainty<br>- **Transverse Graph Screen** - visual assessment of locate quality and distortion<br>- **Plan View Screen** – fully automatic graphical representation of the cable position independent of cable direction, including depth/current and locate uncertainty.<br>- **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:**<br>- Set up frequency selection to toggle by "***f***" pushbutton<br>- Setup location mode selection to toggle by "***m***" pushbutton<br>- Setup screen views selection to toggle by long press "***m***" pushbutton<br>- Units of measure (feet/meters)<br>- Sound (Pitch) – normal or modulated<br>- Language<br>- Continuous depth and current options<br>- Loudspeaker level<br>- Backlight<br>- Bluetooth pairing if installed<br>- Transmitter Radio Link if installed<br>- Warnings (Excessive Tilt, Overhead Signal, Shallow Cable, Signal Overload) |

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| | - Auto shut down – configurable to power down at five minutes, ten minutes, or never | |
| **Data Logging** | - 50 million record internal storage<br>- Data can also be transferred for storage, via cellular connectivity, into the cloud using the Vivax-Metrotech application, VMMAP<br>- 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 and xlsx formats. The transfer is via a USB cable connection from the locator to the host computer.<br>**Or**<br>- Cellular transfer to the VMMap Cloud (Vivax-Metrotech Cloud) via the VMMap mobile app | |
| **Operating Frequencies** | - Configurable frequencies from 32Hz to 32.8kHz<br>• Power 50Hz and 60Hz<br>• Radio 22.7kHz - 10.0kHz bandwidth<br>- 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<br>- Null, Delta Null<br>- Omni Directional Peak Omni Directional Broad | |
| **Gain Control** | - Manual gain using "+" or "-" keys<br>- One-touch of "+" or "-" keys rescales to 60% of the bar graph scale<br>- In Vector Screen, "+" and "–" keys act as zoom feature to keep target utility in view<br>- 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<br>- 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)*<br>- 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<br>- 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.

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