



VIVAX
METROTECH

vLoc3-XLF

Technical Specifications V1.1



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A. Typical Applications

Item	Parameter
Description	Multi-purpose low-frequency precision locator receiver
Uses	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	4.3" / 10.9cm Transmissive 480 x 272 Pixel, 16-bit Color, High Visibility LCD
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 backlight activated - Battery life varies with temperature - Re-charging cycles are approximately 500 times the life cycle
Environmental	- IP65 and NEMA 4
External Connectors	<ul style="list-style-type: none"> - Accessory and Charging Socket: To charge the internal batteries and attach plug-and-play accessories - Mini USB Port - for data transferring and firmware updates
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

	<ul style="list-style-type: none"> • ETSI EN 301 489-1 • ETSI EN 301 489-3 - Complies with FCC Rules Part 15 <ul style="list-style-type: none"> • CFR 47 part 2 • CFR 47 Part 15
Manufacturing	ISO 9001:2015
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 - Soft carry bag
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 - Tx-Link (Optional transmitter radio link to remotely operate the transmitter) - Range of Sondes (waterproof, self-contained transmitters for use in pipes & ducts)

C. Operational

Item	Parameter
Information Displayed	<p>Status Bar Information:</p> <ul style="list-style-type: none"> - Antenna configuration: Peak, Peak with arrows, Null, Broad, Delta Null, Omni Directional Peak, Omni Directional Broad - Line location - depth & current measurement - Battery condition - Speaker volume - Bluetooth and GNSS status (If fitted) - Radio link to transmitter status (if fitted) <p>Locate screen (Classic display):</p> <ul style="list-style-type: none"> - Bar Graph – showing signal response is color-coded indicating distortion level - Signal strength - moving bar graph with the corresponding numeric value - Peak level indicator – showing last peak value - Proportional left/right indication

- Compass - 360° line direction indicator
- Gain level (in dB)
- Frequency selected
- Customer definable start-up screen
- Depth and current
- Warnings (if activated)
- Plug and play automatic recognition of accessories
- Accessory specific custom screens

Information screen:

- GPS coordinates
- Real-time horizontal accuracy in 2DRMS
- Signal current and depth value
- Datalog number

Alternative locating screens:

- **Transverse Graph Screen** - visual assessment of locate quality and distortion
 - **Sonde Locate Screen** – directing arrow to move to the Sonde position along the polar axis
 - **Vector Locate 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, including depth/current and locate uncertainty.

Configuration

The intuitive setup menus enable the user to configure:

- Frequency – shown on the LCD when toggling with the “f” pushbutton
- Antenna Configuration – modes are shown on the LCD when toggling with the “m” pushbutton
- Alternative Locating Screens - are shown on the LCD with a long press of the “m” pushbutton
- Setup Menu Screens – setup menus access by a long press of the “i” pushbutton
- Units of measure (feet/meters)
- Speaker – normal or modulated tones
- Speaker level
- Continuous Information – options for depth and current information to be shown on the LCD
- Backlight options
- Warnings (Excessive Tilt, Overhead Signal, Shallow Cable, Signal Overload)
- Auto shut down – configurable to power down at five minutes, ten minutes, or never
- Languages
- Bluetooth pairing (optional feature)

	<ul style="list-style-type: none"> - Transmitter Radio Link (optional feature) 	
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, date and time 	
Data Transfer	<p>Via the free Vivax-Metrotech “MyLocator3” software application tool available for download from our website.</p> <p>Data can be saved in xls, xlsx, csv, txt, shp, kml (Google Earth) formats.</p>	
Operating Frequencies	<ul style="list-style-type: none"> - Configurable frequencies from 32Hz to 32.8kHz <ul style="list-style-type: none"> • Power 50Hz and 60Hz • Radio 22.7kHz, 10kHz bandwidth - Optional “Signal Direction” (SD) - enhanced product model giving the outgoing current direction. <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) - Vector Locate (Lateral Position & Depth) - Sonde Locate 	
Gain / Scaling Control	<p>Manual gain using “+” or “-” with one touch to return to center (60% of FSD)</p> <p>“+” or “-” used to rescale the vector screen dependent on cable depth and offset</p>	
Accuracy	Locate pinpointing accuracy:	<ul style="list-style-type: none"> - Over 9ft (3m) – 5% of the depth - Up to 9ft (3m) – 3% of the depth
	Depth measurement accuracy:	3% of the 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 the strength of 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
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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
Firmware	<p>The MyLocator3 desktop app is available free of charge from our website.</p> <p>The firmware can be upgraded by attaching the locator via USB cable to the PC.</p>

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