

**VIVAX**  
**METROTECH**

# vLoc3-Pro

Technical Specifications V1.1



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## 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"> <li>- Six x AA Alkaline batteries</li> <li>- Rechargeable custom Lithium-ion batteries with 100-240V AC mains charger</li> </ul>
Battery Life	<ul style="list-style-type: none"> <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) (with full backlight turned on). Re-charging cycles approx. 500 times life cycle. Battery life varies with temperature.</li> </ul>
Environmental	<ul style="list-style-type: none"> <li>- IP65 and NEMA 4</li> </ul>
External Connectors	<ul style="list-style-type: none"> <li>- Accessory Socket – to change the internal batteries and attach accessories</li> <li>- Mini USB socket for data transfer and programming</li> </ul>
Temperature Range	<ul style="list-style-type: none"> <li>- Operating: -4°F to 122°F (-20°C to 50°C)</li> <li>- Storage: -40°F to 140°F (-40°C to 60°C)</li> </ul>
Compliance and Approvals	<ul style="list-style-type: none"> <li>- Complies with European standard CE (Directive 99/5/EC) <ul style="list-style-type: none"> <li>• EN 55011</li> <li>• EN 61000-4-2: A1 &amp; A2</li> <li>• EN 61000-4-3</li> <li>• EN 61000-4-8: A1</li> <li>• ETSI EN 300 330-2</li> <li>• ETSI EN 301 489-1</li> <li>• ETSI EN 301 489-3</li> </ul> </li> </ul>

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

## C. Operational

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

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

	<ul style="list-style-type: none"> <li>- Vector Locate (Lateral Position &amp; Depth)</li> <li>- Sonde Locate</li> </ul>	
<b>Gain / Scaling Control</b>	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	
<b>Accuracy</b>	Locate pinpointing accuracy:	<ul style="list-style-type: none"> <li>- Over 9ft (3m) – 5% of depth</li> <li>- Up to 9ft (3m) – 3% of depth</li> </ul>
	Depth measurement accuracy:	3% of depth
	Current measurement accuracy:	<ul style="list-style-type: none"> <li>- 5% of actual current – over 9ft (3m)</li> <li>- 3% of actual current – up to 9ft (3m)</li> </ul>
	Depth range:	Dependent on strength of signal radiating to locator
	Performance rated using a single undistorted signal source	
<b>Compatible Transmitters</b>	Loc3-5Tx, Loc3-10Tx, Loc3-1Tx, Loc-5STx, Loc-5DTx	

## D. Shipping and Packaging

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

## E. Warranty

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

## F. Firmware Updates

Item	Parameter
<b>Software</b>	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.