



**VIVAX**  
**METROTECH**

# vLoc3 RTK-Pro

Technical Specifications V1.6



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## A. Description and Typical Applications

| Item         | Parameter                                                                                                                                                                                                                                                                                         |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model Name   | RTK-Pro                                                                                                                                                                                                                                                                                           |
| Model Number | VX226-01                                                                                                                                                                                                                                                                                          |
| Description  | High-precision utility locator that combines advanced electromagnetic locating with integrated RTK GNSS for accurate mapping of buried utilities.                                                                                                                                                 |
| Intended Use | <ul style="list-style-type: none"> <li>- Locating &amp; pinpointing the position of buried pipes, cables, and sondes</li> <li>- High accuracy GNSS mapping of above and buried utility assets data collection in one device</li> <li>- Fault finding of damaged cables or pipe defects</li> </ul> |

## B. Characteristics

| Item                        | Parameter                                                                                                                                                                                                                                                                                                                        |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Construction                | High impact thermoplastic (ABS) injection molded housing                                                                                                                                                                                                                                                                         |
| Weight                      | 5.5lbs (2.5kg)                                                                                                                                                                                                                                                                                                                   |
| Dimensions                  | 14.7in(L) x 4.9in(W) x 29.8in(H) (374mm x 125mm x 758mm)                                                                                                                                                                                                                                                                         |
| Display Type                | High-Visibility Color Display, 4.3"/10cm with 480 x 272 resolution and automatic backlight                                                                                                                                                                                                                                       |
| Receiver Antennas           | <ul style="list-style-type: none"> <li>- Two sets of Omnidirectional Antennas, each comprising: <ul style="list-style-type: none"> <li>• Two Compass antennas</li> <li>• Two Horizontal antennas</li> <li>• Two Vertical antennas</li> </ul> </li> <li>- GNSS Antenna multi constellation</li> <li>- Cellular Antenna</li> </ul> |
| Batteries                   | <ul style="list-style-type: none"> <li>- Rechargeable custom Lithium-ion batteries with 100-240V AC mains charger (Standard)</li> <li>- Six x AA Alkaline batteries (optional)</li> </ul>                                                                                                                                        |
| Battery Life <sup>(1)</sup> | <ul style="list-style-type: none"> <li>- Lithium-ion – typically *19 hours of continuous use at 70°F (21°C)</li> <li>- Alkaline – typically 6 hours of intermittent use at 70°F (21°C)</li> </ul>                                                                                                                                |
| Environmental               | IP65                                                                                                                                                                                                                                                                                                                             |
| External Connectors         | <ul style="list-style-type: none"> <li>- Accessory Socket – to charge the internal batteries and attach accessories</li> <li>- Mini USB socket for data transfer and programming</li> <li>- Nano SIM card for cellular connectivity</li> <li>- Micro USB for GNSS module firmware update</li> </ul>                              |

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                         |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Temperature Range</b>        | <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> <li>- Recommended storage temperature for lithium-ion batteries is typically: <ul style="list-style-type: none"> <li>• Long-term storage: 59°F to 77°F (15°C to 25°C)</li> <li>• Short-term storage: 104°F (Up to 40°C)</li> <li>• Avoid: Temperatures below -4°F (-20°C) or above 140°F (60°C)</li> </ul> </li> </ul> <p>*Storing batteries in a cool, dry place and at around 50% charge helps preserve battery health over time.</p> |                                                                                                                                                                                                                                                                         |
| <b>Compliance and Approvals</b> | <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> <li>- PTCRB approval</li> <li>- FCC approval</li> <li>- AT&amp;T Network approval</li> </ul> |
| <b>Manufacturing</b>            | Designed and manufactured per ISO 9001:2015                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                         |
| <b>What's In the Box</b>        | <ul style="list-style-type: none"> <li>- vLoc3 RTK-Pro Receiver</li> <li>- USB data transfer cable</li> <li>- Custom lithium-ion battery pack</li> <li>- 100-240V AC mains charger</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                     | <ul style="list-style-type: none"> <li>- Six x AA Alkaline battery holder</li> <li>- User handbook</li> <li>- Carry bag</li> <li>- Combination Bluetooth &amp; WiFi module (factory embedded not accessible)</li> </ul>                                                 |
| <b>Compatible Accessories</b>   | <ul style="list-style-type: none"> <li>- MLA (Marker Locator Adapter) to locate buried EMS Markers</li> <li>- A-frame fault locator</li> <li>- Remote Antenna (Stethoscope)</li> <li>- Vehicle Charging DC Lead</li> <li>- Range of Sondes (waterproof, self-contained transmitters for use in nonmetallic pipes &amp; ducts)</li> <li>- Adapters <ul style="list-style-type: none"> <li>• Tall adapter</li> <li>• Survey Adapter (30cm)</li> <li>• Long Survey Adapter (91cm)</li> </ul> </li> <li>- Receiver clamp for cable identification</li> </ul>                          |                                                                                                                                                                                                                                                                         |

## C. RTK

| Item                                                   | Parameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>GNSS Features</b>                                   | <ul style="list-style-type: none"> <li>- Concurrent reception of multiple GNSS constellations: <ul style="list-style-type: none"> <li>• GPS, GLONASS, Galileo, BeiDou, QZSS, SBAS</li> </ul> </li> <li>- GNSS Signals: L1C/A, L2C, L1OF, L2OF, E1B/C, E5b, B1I, B2I</li> <li>- *Position accuracy RTK 0.01 m + 1 ppm CEP</li> <li>- Convergence time RTK &lt; 10 sec</li> <li>- Acquisition: Cold starts = 24s, Reacquisition = 2s</li> <li>- SBAS and QZSS support</li> </ul> <p><i>*Specification dependent on atmospheric conditions, baseline length, GNSS antenna, multipath conditions, satellite visibility, and geometry</i></p>                                                                                                                                                                                         |
| <b>NTRIP</b>                                           | <ul style="list-style-type: none"> <li>- Compatible with Casters with RTCM3.x output messages</li> <li>- Compatible with MSM4, MSM5, MSM6, MSM7</li> <li>- Real-time reference station connection status displayed on the receiver</li> <li>- Real-time horizontal accuracy in 2DRMS</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Network &amp; Wireless Interfaces<sup>(3)</sup></b> | <ul style="list-style-type: none"> <li>- LTE Cat-4 with fallback to 3G and 2G</li> <li>- LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/B20/B25/B26/B28</li> <li>- LTE-TDD: B38/B39/B40/B41</li> <li>- WCDMA (3G): B1/B2/B4/B5/B6/B8/B19</li> <li>- GSM (2G): B2 1900MHz / B3 1800MHz / B5 850MHz / B8 900MHz</li> <li>- PTCRB Certified</li> <li>- AT&amp;T network approved</li> <li>- FOTA / DFOTA (firmware over the air) automatic updates</li> <li>- Wi-Fi: IEEE 802.11b/g/n (2.4 GHz)</li> <li>- ASCII password entry support</li> <li>- Bluetooth: Version 4.2 (BR/EDR and BLE)</li> <li>- Supports multiple simultaneous Wi-Fi and Bluetooth connections at the same time</li> <li>- Data Rates: <ul style="list-style-type: none"> <li>• Wi-Fi: Up to 72 Mbps</li> <li>• Bluetooth: Up to 3 Mbps</li> </ul> </li> </ul> |
| <b>Third-party Support</b>                             | <ul style="list-style-type: none"> <li>- Bluetooth connectivity to mobile devices for mapping on Android or iOS</li> <li>- NTRIP over Bluetooth from mobile device</li> <li>- NMEA0183 output over Bluetooth for high accuracy core location on mobile device</li> <li>- Connectivity from VMMMap Cloud to external database via API</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

## D. Operational

| Item                  | Parameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| Information Displayed | <p><b>Information screen:</b></p> <ul style="list-style-type: none"> <li>- Real-time GPS horizontal accuracy in 2DRMS</li> <li>- Spirit level used to align GNSS antenna</li> <li>- GPS coordinates available in DD, DDM, DMS format</li> <li>- Altitude MSL</li> <li>- Measured signal current in mA or Amps</li> <li>- Measured estimated depth of signal in Ft. and inches, Inches, Meter</li> <li>- Data logging storage options: store or discard</li> <li>- Incremental data log count per survey</li> <li>- Feature and attribute logging from .vxj library</li> </ul> <p><b>Status Bar Information:</b></p> <ul style="list-style-type: none"> <li>- Antenna configuration: Peak, Peak with arrows, Null, Broad, Broad with arrows, Delta Null, Omni Directional Peak, Omni Directional Broad</li> <li>- Continuous depth estimation</li> <li>- Continuous current measurement</li> <li>- Battery charge level condition and battery type (Li-Ion / Alkaline)</li> <li>- Speaker volume</li> <li>- Bluetooth status</li> <li>- GNSS Fix type status</li> <li>- Cellular connection status and signal quality</li> <li>- Wi-Fi connection status</li> </ul> <p><b>Locate screen (Classic display):</b></p> <ul style="list-style-type: none"> <li>- Signal strength moving bar graph &amp; numeric value from 0% to 99.9%</li> <li>- Bar graph color-coded indicating distortion level</li> <li>- Peak level indicator</li> <li>- Proportional left/right null indication</li> <li>- Compass with full 360°-line direction indicator</li> <li>- Gain level 0dB to 140dB</li> <li>- Frequency selected</li> <li>- Warnings when triggered</li> <li>- Distance from last data logged point</li> <li>- Plug and play automatic recognition of accessories</li> <li>- Accessory specific custom screens</li> </ul> <p><b>Customer definable start-up screen</b></p> |

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| <b>Locate Perspectives</b> | <ul style="list-style-type: none"> <li>- <b>Classic Locate</b> – moving bar graph with numeric value showing signal strength</li> <li>- <b>Vector Locate Screen</b> – fully automatic gain control with information display <ul style="list-style-type: none"> <li>• Offset distance measurement to signal</li> <li>• Directional left or right arrow to offset location</li> <li>• Continuous depth estimation</li> <li>• Locate signal uncertainty with scaled circle indicator</li> <li>• Mini plan view for line orientation</li> <li>• Scale adjustment for deep utilities</li> </ul> </li> <li>- <b>Transverse Graph Screen</b> - visual assessment of locate quality and distortion <ul style="list-style-type: none"> <li>• Visual peak indicator</li> <li>• Visual null indicator</li> <li>• Comparison of peak and null signal simultaneously</li> </ul> </li> <li>- <b>Plan View Screen</b> – fully automatic gain graphical representation of the cable position, independent of cable direction <ul style="list-style-type: none"> <li>• Directional guidance arrow</li> <li>• Line orientation</li> <li>• Locate uncertainty represented with dash lines</li> <li>• Locate Uncertainty Line – Color Change Indicator</li> </ul> </li> <li>- <b>3D Sonde Locate Screen</b> – directing arrow to move to the Sonde position along the polar axis <ul style="list-style-type: none"> <li>• Directional guidance arrow</li> <li>• Null point indicator</li> <li>• Bar graph with peak signal response</li> <li>• Magnetic field alignment indicator</li> </ul> </li> </ul> |
| <b>Configuration</b>       | <p>The intuitive setup menu enables the user to configure:</p> <ul style="list-style-type: none"> <li>- Display Backlight (Low, Medium, High, Auto)</li> <li>- Frequency menu</li> <li>- Pipe diameter</li> <li>- Locate Perspective (Classic Locate, Vector Locate, Transverse Graph, Plan View, Sonde)</li> <li>- Measurement units (Feet, Inches, Metres)</li> <li>- Speaker Volume (Low, Medium, High, Off)</li> <li>- Continuous information (Depth, Signal current, Depth &amp; Current, Off)</li> <li>- Warnings (Overhead cable, Swing alert, Shallow depth, Signal overload)</li> <li>- Sound configuration (AM, FM)</li> <li>- Antenna configuration (Peak, Peak with arrows, Null, Broad, Broad with arrows, Delta Null, Omni Directional Peak, Omni Directional Broad)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

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|                                | <ul style="list-style-type: none"> <li>- MLA Screen Style (Classic Locate)</li> <li>- Auto Power off (5 mins, 10 mins, Never)</li> <li>- Coordinate Format (DMS, DDM, DD)</li> <li>- GPS Source (internal, Bluetooth)</li> <li>- Language (31 different languages available)</li> <li>- Survey type (Electric, Gas, Communications, Potable Water, Reclaimed Water, Sewer, Temporary Survey, Proposed Excavation, Oil)</li> <li>- Adapter (Tall, Survey, Long Survey, Not attached)</li> <li>- Marker type (when MLA is connected: Power, Water, Sanitary, Telephone, Gas, CATV, Non-Potable Water, Power-Europe)</li> <li>- Bluetooth/Wi-Fi Connection Enable/Disable/Auto Connect</li> <li>- Bluetooth Pairing</li> <li>- Wi-Fi Network connection</li> <li>- GNSS RTK Sources</li> <li>- Log Feature / Auto-Log Feature</li> <li>- Set up frequency selection to toggle by “f” pushbutton</li> <li>- Change antenna mode by toggling “Enter” pushbutton</li> <li>- Change screen views selection to toggle by long press “<b>Enter</b>” pushbutton</li> </ul> |
| <b>Data Logging</b>            | <ul style="list-style-type: none"> <li>- 50 million record internal storage</li> <li>- Automatic data transfer when connected to cellular network or Wi-Fi hotspot to the VMMap Cloud and VMMapPro App</li> <li>- All parameters stored at each location including depth, current, date, time, mode, gain setting, frequency, locate uncertainty, longitude, latitude, height above sea-level, and more</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Data Transfer</b>           | <ul style="list-style-type: none"> <li>- Via the Vivax-Metrotech “MyLocator3” software application available free of charge from <a href="http://www.vivax-metrotech.com">www.vivax-metrotech.com</a>. Data can be saved in csv, kml, shp, dxf, txt, xls and xlsx formats. The transfer is via a USB cable connection from the locator to the host computer.</li> <li><b>Or</b></li> <li>- Cellular or Wi-Fi hotspot transfer to the VMMap Cloud (Vivax-Metrotech Cloud)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Operating Frequencies</b>   | <ul style="list-style-type: none"> <li>- Configurable frequencies from 98Hz to 200kHz <ul style="list-style-type: none"> <li>• Dedicated Power 50Hz and 60Hz</li> <li>• Radio 10.0kHz - 22.7kHz bandwidth</li> <li>• Power harmonics for 50Hz or 60Hz regions</li> <li>• SD-USA: 256Hz/512Hz, SD-EUROPE: 320Hz/640Hz</li> <li>• Signal Select: SIS-491Hz, SIS-982Hz, SIS-8440Hz, SIS-9.82kHz (Europe only)</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Operating Antenna Modes</b> | <ul style="list-style-type: none"> <li>- Broad with arrows                      - Peak, Peak with arrows, Broad Peak</li> <li>- Null, Delta Null                         - Omni Directional Peak, Omni Directional Broad</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

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| <b>Integrity Test</b>          | <ul style="list-style-type: none"> <li>- Calibration Self-test <ul style="list-style-type: none"> <li>• Uses direct signal injection to test antenna transfer function (TRF)</li> </ul> </li> <li>- Distorted Frequency Test (DFT) <ul style="list-style-type: none"> <li>• Aids in selecting optimal locate frequencies in noisy environments</li> </ul> </li> </ul>                                     |                                                                                                                                                                    |
| <b>Gain Control</b>            | <ul style="list-style-type: none"> <li>- Manual gain using “+” or “-” keys</li> <li>- One-touch of “+” or “-” keys rescales to 60% of the bar graph scale</li> <li>- In Vector Screen automatic gain control is used, “+” and “-” keys act as zoom feature to keep target utility in view</li> <li>- In the Transverse Graph screen, “+” key saves the screen graph, “-” key clears the screen</li> </ul> |                                                                                                                                                                    |
| <b>Accuracy<sup>(2)</sup></b>  | Locate pinpointing accuracy:                                                                                                                                                                                                                                                                                                                                                                              | <ul style="list-style-type: none"> <li>- Up to 9ft (3m) – +/- 3% of the depth</li> <li>- Over 9ft (3m) – +/- 5% of the depth</li> </ul>                            |
|                                | Depth measurement accuracy:                                                                                                                                                                                                                                                                                                                                                                               | <ul style="list-style-type: none"> <li>- +/- 3% of depth</li> </ul>                                                                                                |
|                                | Current measurement accuracy:                                                                                                                                                                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>- +/- 3% of actual current – up to 9ft (3m)</li> <li>- +/- 5% of actual current – over 9ft (3m)</li> </ul>                  |
|                                | Depth range:                                                                                                                                                                                                                                                                                                                                                                                              | <ul style="list-style-type: none"> <li>- Dependent on the strength of the signal radiating to the locator</li> <li>- Maximum depth displayed 98ft (29m)</li> </ul> |
| <b>Compatible Transmitters</b> | Loc3-5Tx, Loc3-10Tx, Loc3-25Tx and any Vivax-Metrotech transmitter with matching frequencies                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                    |

## E. Shipping and Packaging

| Item                      | Parameter                                               |
|---------------------------|---------------------------------------------------------|
| <b>Shipping Weight</b>    | 17lbs (7.7kg)                                           |
| <b>Shipping Dimension</b> | 16.5in(L) x 11in(W) x 32.3in(H) (420mm x 280mm x 820mm) |

## F. Warranty

| Item            | Parameter                                        |
|-----------------|--------------------------------------------------|
| <b>Warranty</b> | 24 months (Optional extended warranty available) |

## G. Software Updates

| Item            | Parameter                                                                                                                                                                                           |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Software</b> | <ul style="list-style-type: none"> <li>- The software can be upgraded using a PC with a USB port. Program updates and locator software updates are available via the free MyLocator3 app</li> </ul> |

- Software updates provided over the air (OTA) when connected to cellular or Wi-Fi hotspot.

- 1) Battery life varies with usage conditions such as backlight, brightness, speaker volume, and Wi-Fi/BT connectivity; continuous operation may reduce the runtime compared to typical intermittent use. Lithium-ion battery performance will gradually degrade over time and with repeated charge cycles, leading to reduced operating duration under continuous use. Re-charging cycles are approximately 500 times the life cycle.
- 2) Locate and depth accuracy are quoted for 20°C and average soil conductivity. It is also assumed the return current localisation is deep compared to the target cable.
- 3) Connectivity and bands dependent on world coverage region

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

**Performance Disclaimer**

Actual performance may vary depending on environmental conditions, user technique, and signal interference.

**Software & Firmware Disclaimer**

Functionality described may depend on the software or firmware version installed. Features are subject to modification through future updates.

**Battery & Power Disclaimer**

Battery life is estimated and may vary based on settings, usage, temperature, and battery age.

**Calibration Disclaimer**

Self-Test results confirm system consistency with factory calibration but do not replace periodic professional calibration if required by company policy or regulation.

**Compliance Disclaimer**

Compliance with regional standards may vary by country. Users are responsible for ensuring the product is used in accordance with local laws and regulations.

**Use Case Disclaimer**

The system is intended for professional utility locating and should not be used for purposes outside the manufacturer's defined scope.

**Third-Party Services Disclaimer**

Use of GNSS correction services or cloud platforms may require third-party subscriptions and are subject to their terms and availability.

**Feature Availability Disclaimer:**

Certain features, frequencies, or accessories may only be available in specific markets due to regional regulations or product certifications. Please consult your local Vivax-Metrotech representative for availability in your area.

**Trademark Disclaimer:**

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