



VIVAX
METROTECH

vLoc3-9800 System

Technical Specifications V1.6



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A. Description and Typical Applications

Item	Parameter
Model Name	vLoc3-9800
Model Number	VX221-01
Description	Multi-purpose precision utility locator receiver
Intended Use	Locating & pinpointing the position of buried pipes, cables, and sondes

B. Characteristics

Item	Parameter
Construction	High impact thermoplastic (ABS) injection molded housing
Weight	4.4lbs (2kg)
Dimensions	12.6in(L) x 8.6in(W) x 26.6in(H) (321mm x 219mm x 676mm)
Display Type	High-Visibility Color Display, 4.3"/10cm with 480 x 272 resolution
Receiver Antennas	<ul style="list-style-type: none"> - One Upper Horizontal Guidance Antenna - One Left Displacement Antenna - One Right Displacement Antenna - One Compass Antenna
Batteries	<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 continuous use at 70°F (21°C) <p>* With backlight activated, Battery life varies with temperature; re-charging cycles are approximately 500 times the life cycle .</p>
Environmental	IP65 and NEMA 4
External Connectors	<ul style="list-style-type: none"> - Accessory Socket – to charge the internal batteries and attach accessories - Mini USB socket for data transfer and software 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 - Complies with FCC Rules Part 15 <ul style="list-style-type: none"> • CFR 47 part 2 • CFR 47 Part 15

	<ul style="list-style-type: none"> • EN 61000-4-3 • EN 61000-4-8: A1 • ETSI EN 300 330-2 • ETSI EN 301 489-1 • ETSI EN 301 489-3 	
Manufacturing	Designed and manufactured per ISO 9001:2015	
What's In the Box	<ul style="list-style-type: none"> - vLoc3-9800 Receiver - USB data cable - Custom Lithium-ion battery pack 	<ul style="list-style-type: none"> - 100-240V AC mains charger - Six x AA Alkaline battery holder - User handbook
Compatible Accessories	<ul style="list-style-type: none"> - A-frame fault locator - Remote Antenna (Stethoscope) - Vehicle Charging Lead - Bluetooth Module - External GPS Module 	<ul style="list-style-type: none"> - Factory fitted Radio Link (Tx-Link) to Loc3 series transmitters - Range of Sondes (waterproof, self-contained transmitters for use in nonmetallic pipes & ducts)

C. Operational

Item	Parameter
Information Displayed	<p>Status Bar Information:</p> <ul style="list-style-type: none"> - Antenna configuration: Peak, Sonde, Auto or Manual - Line location - depth & current measurement - Battery condition - Speaker volume - Bluetooth and GNSS status (If installed) - Radio link to transmitter status (if installed) <p>Locate screen (Classic display):</p> <ul style="list-style-type: none"> - Left/Right Locate Screen - Peak Locate Screen - Signal strength - numeric value - 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

	<p>Information screen:</p> <ul style="list-style-type: none"> - GPS coordinates - Signal current and depth value - Log number <p>Sonde Locate Screen:</p> <ul style="list-style-type: none"> - Peak curtain style bar graph showing signal strength - Continuous depth reading to the sonde <p>Customer definable start-up screen</p>
<p>Locate Perspectives</p>	<ul style="list-style-type: none"> - Classic Locate - Sonde Locate Screen
<p>Configuration</p>	<ul style="list-style-type: none"> - Intuitive setup menu enables the user to configure: <ul style="list-style-type: none"> • Set up frequency selection to toggle by "f" pushbutton • Setup location mode selection to toggle by "m" pushbutton • Units of measure (feet/meter) • Language • Continuous depth/current options • Loudspeaker level • Backlight: Low, Medium, High or Auto • Bluetooth pairing if installed • Transmitter Radio Link (Tx-Link) if installed • Auto shut down – configurable for five minutes, ten minutes or never
<p>Data Logging</p>	<ul style="list-style-type: none"> - 50 Million record storage - All parameters stored at each location including depth, current, mode, gain setting, frequency, locate uncertainty, longitude, latitude, and height above sea-level - If connected to GPS (via Bluetooth), data is also recorded with coordinates and date-time
<p>Data Transfer</p>	<p>Via the Vivax-Metrotech "MyLocator3" software application available free from the Vivax-Metrotech website. 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.</p> <p>Or</p> <ul style="list-style-type: none"> - Cellular transfer via the cloud using Vivax-Metrotech application software, VMMap
<p>Operating Frequencies</p>	<ul style="list-style-type: none"> - Configurable frequencies from 98Hz to 200kHz - Power - 50Hz and 60Hz - Radio – 10.0kHz - 22.7kHz bandwidth - Sonde - 512Hz, 640Hz, 9.82kHz, 32.8kHz, and 83.1kHz
<p>Operating Modes</p>	<ul style="list-style-type: none"> - Classic locate left/right indication

	<ul style="list-style-type: none"> - Peak Locate - Sonde locate 	
Gain Control	Manual gain using + or - One-touch of + or - keys rescales to 60% of FSD	
Accuracy	Locate pinpointing accuracy:	<ul style="list-style-type: none"> - Up to 9ft (3m) – 3% of the depth - Over 9ft (3m) – 5% of the depth
	Depth measurement accuracy:	+/- 5% of the depth
	Current measurement accuracy:	<ul style="list-style-type: none"> - 3% of actual current –up to 9ft (3m) - 5% of actual current –over 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, Loc3 series, VM-550FF	

D. Shipping and Packaging

Item	Parameter
Shipping Weight	10.2lbs (4.61kg)
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.