

VIVAX
METROTECH

vLoc3-MLA

Technical Specifications V1.0



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A. Typical Applications

Item	Parameter
Description	Plug-and-play adapter for the purpose of locating buried EMS markers
Uses	<ul style="list-style-type: none"> - Detection of any one of nine marker ball types, in good conditions, buried to a depth of 6ft (2m) - Detection of large flat markers to a depth of 9ft (3m)

B. Characteristics

Item	Parameter
Construction	High impact ABS injection molded housing
Weight	1.76lbs (0.8kg)
Dimensions	8.2in(L) x 6.2in(W) x 4.0in(H) (208mm x 157mm x 102mm)
Display Type	Per vLoc3 series receiver being used
MLA Antennas	1 x marker transmit antenna, 1 x marker receiver antenna
Power	Provided by vLoc3 series receiver being used
Environmental	IP65 and NEMA 4
External Connectors	8-Pin male plug goes into the vLoc3 series receivers
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)
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 • 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

Standard Accessories	<ul style="list-style-type: none"> - Cable organizer - Quick Guide
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C. Operational

Item	Parameter																														
Information Displayed on host vLoc3 Series Receivers	<ul style="list-style-type: none"> - Marker reference number and icon - Response to marker ball - Circular bar graph and variable pitch tone to indicate signal strength - Manual EMS (Electronic Marker System) gain control - Proportional left/right indication - Compass: full 360°-line direction indicator - Plug and play automatic recognition of accessories - Gain level (in dB) - Frequency selected - Battery condition - Speaker volume - Operating frequency - Bluetooth and GPS status - Configuration menu & submenus - User definable start-up screen 																														
Operating Frequencies Pre-defined Marker Ball Frequencies	<p>Frequency list defined below:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="background-color: #cccccc;">Ref #</th> <th style="background-color: #cccccc;">Utility</th> <th style="background-color: #cccccc;">Frequency (Hz)</th> </tr> </thead> <tbody> <tr><td>1</td><td>Power (Red)</td><td>169,800</td></tr> <tr><td>2</td><td>Water (Blue)</td><td>145,700</td></tr> <tr><td>3</td><td>Sanitary (Green)</td><td>121,600</td></tr> <tr><td>4</td><td>Telephone (Orange)</td><td>101,400</td></tr> <tr><td>5</td><td>Gas (Yellow)</td><td>83,000</td></tr> <tr><td>6</td><td>CATV (Orange/Black)</td><td>77,000</td></tr> <tr><td>7</td><td>Non-potable Water (Purple)</td><td>66,350</td></tr> <tr><td>8</td><td>EDF (French Power) (natural)</td><td>40,000</td></tr> <tr><td>9</td><td>Power Europe (Blue/Red)</td><td>134,000</td></tr> </tbody> </table> <p>***Note: #9 – some markets only***</p>	Ref #	Utility	Frequency (Hz)	1	Power (Red)	169,800	2	Water (Blue)	145,700	3	Sanitary (Green)	121,600	4	Telephone (Orange)	101,400	5	Gas (Yellow)	83,000	6	CATV (Orange/Black)	77,000	7	Non-potable Water (Purple)	66,350	8	EDF (French Power) (natural)	40,000	9	Power Europe (Blue/Red)	134,000
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Operating Modes	<ul style="list-style-type: none"> - Line Location Receiver - Marker Locator - Dual mode operation: Peak response combined with Marker-Ball Detection 																														
Gain Control	Manual gain using "+" or "-" with one touch to return to center (60% of FSD)																														
Performance in Area of Undistorted Fields	Generally locatable to 6ft (2m) depth																														

Performance Using Single Undistorted Signal Source	Locate pinpointing accuracy in single line locate mode:	<ul style="list-style-type: none"> - Over 9ft (3m) – 5% of depth - Up to 9ft (3m) – 3% of depth
	Depth measurement accuracy:	3% of 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 strength of signal radiating to locator – generally up to 15ft (5m)
Compatible Receivers	vLoc3-Pro, vLoc3-5000 and vLoc3-9800	

D. Shipping and Packaging

Item	Parameter
Shipping Weight	1.98lbs (0.9kg)
Shipping Dimension	9.3in(L) x 6.7in(W) x 4.1in(H) (235mm x 170mm x 105mm)

E. Warranty

Item	Parameter
Warranty	12 months

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