



VIVAX
METROTECH

vLoc3-MLA

Technical Specifications V1.4



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A. Description and Typical Applications

Item	Parameter
Model Name	vLoc3-MLA
Model Number	VX220-02
Description	Plug-and-play adapter to locate buried EMS markers
Uses	- 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
Manufacturing	Designed and manufactured per ISO 9001:2015.
External Connectors	8-Pin male plug plugs into vLoc3 series receivers
Temperature Range	- Operating: -4°F to 122°F (-20°C to 50°C) - Storage: -40°F to 140°F (-40°C to 60°C)
Approvals	- Complies with European standard CE (Directive 99/5/EC) • 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 • CFR 47 part 2 • CFR 47 Part 15
Standard Accessories	- Cable organizer - Quick Guide

C. Operational

Item	Parameter																														
Information Displayed on host vLoc3 Series Receivers	- 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	<table><tr><th>Ref #</th><th>Utility</th><th>Frequency (Hz)</th></tr><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></table> ***Note: #9 – some markets only***	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	- 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:	- Over 9ft (3m) – 5% of depth - Up to 9ft (3m) – 3% of depth
	Depth measurement accuracy:	3% of depth
	Current measurement accuracy:	- 5% of actual current – over 9ft (3m) - 3% of actual current – up to 9ft (3m)
	Depth range:	Dependent on the strength of the signal radiating to the 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 are subject to change without prior notice.