



**VIVAX**

**METROTECH**

**indepth**<sup>TM</sup>  
UTILITY SOLUTIONS  
281-969-8530

# vLoc3-MLA

Technical Specifications V1.3



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## A. Description and Typical Applications

Item	Parameter
Model Name	vLoc3-MLA
Model Number	VX220-02
Description	Plug-and-play adapter for the purpose of locating buried EMS markers
Uses	<ul style="list-style-type: none"> <li>- Detection of any one of nine marker ball types, in good conditions, buried to a depth of 6ft (2m)</li> <li>- Detection of large flat markers to a depth of 9ft (3m)</li> </ul>

## 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
Manufacturing	Designed and manufactured per ISO 9001:2015.
External Connectors	8-Pin male plug goes into the vLoc3 series receivers
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>
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</b>	<ul style="list-style-type: none"> <li>- Cable organizer</li> <li>- Quick Guide</li> </ul>

## C. Operational

Item	Parameter																														
Information Displayed on host vLoc3 Series Receivers	<ul style="list-style-type: none"><li>- Marker reference number and icon</li><li>- Response to marker ball</li><li>- Circular bar graph and variable pitch tone to indicate signal strength</li><li>- Manual EMS (Electronic Marker System) gain control</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>- Gain level (in dB)</li><li>- Frequency selected</li><li>- Battery condition</li><li>- Speaker volume</li><li>- Operating frequency</li><li>- Bluetooth and GPS status</li><li>- Configuration menu &amp; submenus</li><li>- User definable start-up screen</li></ul>																														
Operating Frequencies  Pre-defined Marker Ball Frequencies	<p>Frequency list defined below:</p> <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> <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"><li>- Line Location Receiver</li><li>- Marker Locator</li><li>- Dual mode operation: Peak response combined with Marker-Ball Detection</li></ul>																														

<b>Gain Control</b>	Manual gain using "+" or "-" "with one touch to return to center (60% of FSD)	
<b>Performance in Area of Undistorted Fields</b>	Generally locatable to 6ft (2m) depth	
<b>Performance Using Single Undistorted Signal Source</b>	Locate pinpointing accuracy in single line locate mode:	<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 – generally up to 15ft (5m)
<b>Compatible Receivers</b>	vLoc3-Pro, vLoc3-5000 and vLoc3-9800	

## D. Shipping and Packaging

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

## E. Warranty

Item	Parameter
<b>Warranty</b>	12 months

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

*Your Local Distributor:*



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