



**VIVAX**  
**METROTECH**

# VM-510FFL+ A-frame

Technical Specifications V1.5



## Worldwide Locations

### World Headquarters, United States of America

#### Vivax-Metrotech Corporation

3251 Olcott Street, Santa Clara, CA 95054, USA

T/Free : 1-800-446-3392

Tel : +1-408-734-3880

Fax : +1-408-734-1415

Website: [www.vivax-metrotech.com](http://www.vivax-metrotech.com)

Email : [SalesUSA@vxmt.com](mailto:SalesUSA@vxmt.com)

### Central/South America and the Caribbean

#### Ventas para América Latina

3251 Olcott Street, Santa Clara, CA 95054, USA

T/Free : 1-800-446-3392

Tel : +1-408-734-3880

Fax : +1-408-743-5597

Website: [www.vivax-metrotech.com](http://www.vivax-metrotech.com)

Email : [LatinSales@vxmt.com](mailto:LatinSales@vxmt.com)

### Canada

#### Vivax Canada, Inc.

41 Courtland Ave Unit 8, Vaughan, ON L4K 3T3, Canada

Tel : +1-289-846-3010

Fax : +1-905-752-0214

Website: [www.vivax-metrotech.ca](http://www.vivax-metrotech.ca)

Email : [SalesCA@vxmt.com](mailto:SalesCA@vxmt.com)

### United Kingdom

#### Vivax-Metrotech Ltd.

Unit 1, B/C Polden Business Centre, Bristol Road, Bridgwater, Somerset, TA6 4AW, UK

Tel : +44(0)1793 822679

Website: [www.vivax-metrotech.co.uk](http://www.vivax-metrotech.co.uk)

Email : [SalesUK@vxmt.com](mailto:SalesUK@vxmt.com)

### France

#### Vivax-Metrotech SAS

Technoparc - 1 allée du Moulin Berger, 69130 Ecully, France

Tel : +33(0)4 72 53 03 03

Fax : +33(0)4 72 53 03 13

Website: [www.vivax-metrotech.fr](http://www.vivax-metrotech.fr)

Email : [SalesFR@vxmt.com](mailto:SalesFR@vxmt.com)

### Germany

#### Metrotech Vertriebs GmbH

Am steinernen Kreuz 10a  
96110 Schesslitz

Tel : +49 9542 77227-43

Website: [www.vivax-metrotech.de](http://www.vivax-metrotech.de)

Email : [SalesEU@vxmt.com](mailto:SalesEU@vxmt.com)

### China

#### Vivax-Metrotech (Shanghai) Ltd.

Building 10, Lane 1158 Zhongxin Rd.,  
Songjiang District, Shanghai, China, 201615

Tel : +86-21-5109-9980

Website: [www.vivax-metrotech.com](http://www.vivax-metrotech.com)

Email : [SalesCN@vxmt.com.cn](mailto:SalesCN@vxmt.com.cn)

## A. Description and Typical Applications

Item	Parameter
Model Name	VM-510FFL+
Model Number	VX218-04
Description	Combination cable locator and ground fault locator
Applications	Identifying the position of a cable and locating insulation faults to ground and pipeline coating defects that are in contact with the ground

## B. Characteristics

Item	Parameter
Construction	Carbon fiber/ reinforced glass fiber/ high impact thermoplastic (ABS) construction
Weight	4.23lbs (1.92kg)
Dimension	28.7in(H) x 25.2(W) x 2.9in(T) (728mm x 640mm x 74mm)
Display	1.28" 128 x 128 black and white dot matrix LCD
Power Supply	Six x AA alkaline batteries. Also compatible with Six NiMH size AA batteries
Battery life	Alkaline: typically, 60 hours continuous use at 70°F (21°C) NiMH: typically, 2300mAh will provide 45 hours continuous use at 70°F (21°C)
Environmental	IP 54 and NEMA 4
Manufacturing	Designed and manufactured per ISO 9001:2015
External Connectors	Mini-USB for maintenance and software upgrades.
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	CE/FCC
What's In the Box	VM-510FFL+ Receiver                      USB Cable Soft carry bag                                  Rubber spike covers
Compatible Transmitters	Loc and Loc3 series transmitters with FF modes, VM-550FF, VM560FF

## C. Operational

Item	Parameter
Information Displayed	Mode, Frequency, Peak/Null/Left/Right, depth, and current. Fault signal strength and direction. Battery condition and Speaker volume setting
Operating Frequency	8kFF (8Hz/8.192kHz with 2.67Hz phase modulation) or FF (3Hz/6Hz/8.192kHz)
Cable Locate Sensitivity	10uA at one-meter depth
Fault Locate Sensitivity	Typically, it can detect 2MΩ at one-meter depth.
Accuracy	Depth Accuracy - From 4" to 10' (100mm to 3M), accuracy is +/- 5% of the depth.
Audible	The speaker indicates Left/Right by pulsed/continuous tone.

## D. Shipping and Packaging

Item	Parameter
Shipping Weight	9.4lbs (4.25kg)
Shipping Dimension	31.5in(L) x 27.8in(W) x 4.5in(H) (800mm x 705mm x 115mm)

## E. Warranty

Item	Parameter
Warranty	<ul style="list-style-type: none"> <li>- Two Years</li> <li>- Optional extended warranty available</li> </ul>

## F. Firmware Updates

Item	Parameter
Firmware	Firmware can be upgraded using a PC with a USB port. Programs & locator software are available via the MyLocator3 app.

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