



**VIVAX**  
**METROTECH**

# VM-510FFL+ A-frame

Technical Specifications V1.6



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## 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	IP54
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>- 24 months</li> <li>- 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.

1) Locate and depth accuracy are quoted for 20 degC and average soil conductivity. It is also assumed the return current localisation is deep compared to the target cable.

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

Performance Disclaimer Actual performance may vary depending on environmental conditions, user technique, and signal interference.

Software & Firmware Disclaimer Functionality described may depend on the software or firmware version installed. Features are subject to modification through future updates.

Battery & Power Disclaimer Battery life is estimated and may vary based on settings, usage, temperature, and battery age.

Calibration Disclaimer Self-Test results confirm system consistency with factory calibration but do not replace periodic professional calibration if required by company policy or regulation.

Compliance Disclaimer Compliance with regional standards may vary by country. Users are responsible for ensuring the product is used in accordance with local laws and regulations.

Use Case Disclaimer The system is intended for professional utility locating and should not be used for purposes outside the manufacturer's defined scope.

Third-Party Services Disclaimer Use of GNSS correction services or cloud platforms may require third-party subscriptions and are subject to their terms and availability.

Feature Availability Disclaimer: Certain features, frequencies, or accessories may only be available in specific markets due to regional regulations or product certifications. Please consult your local Vivax-Metrotech representative for availability in your area.

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