

## A. VM-550 Locator Typical Applications

Item	Parameter
Description	VM-550 Three Frequency Locator Kit
Uses	Pipe and cable locator

## B. Receiver

Item	Parameter
Construction	<ul style="list-style-type: none"> <li>- Carbon fiber reinforced antenna tube</li> <li>- High impact thermoplastic (ABS) injection molded housing</li> </ul>
Weight	1.41lbs (0.64kg)
Dimensions	34.6in(L) x 3.1in(W) x 2.8in(H) (880mm x 80mm x 70mm)
Digital Display	Dot matrix
Audio	Piezo Speaker
Batteries	2 x AA (LR06) Alkaline batteries - typically 20 hours continuous use at 70°F (21°C)
Operating Frequencies	<ul style="list-style-type: none"> <li>- Passive: 50Hz or 60Hz</li> <li>- Active: 512Hz or 640Hz, 8.192kHz (8192Hz), 83.1kHz (83100Hz)</li> </ul>
Sensitivity	<ul style="list-style-type: none"> <li>- Frequency <ul style="list-style-type: none"> <li>• 50/60Hz 5mA for 20dB SNR and 10Hz bandwidth</li> <li>• 512/640Hz 1.5mA for 20dB SNR and 10Hz bandwidth</li> <li>• 8.192kHz 27uA for 20dB SNR and 10Hz bandwidth</li> <li>• 83.1kHz 6uA for 20dB SNR and 10Hz bandwidth</li> </ul> </li> </ul>
Measurements	<ul style="list-style-type: none"> <li>- Signal strength</li> <li>- Depth range 5m (16ft), accuracy +/- 5% of depth (with stable signal)</li> </ul>
Controls	Keypad with four pushbuttons
Connectors	1 x mini USB socket for programming
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</li> <li>• EN 61000-4-3</li> <li>• EN 61000-4-8</li> </ul> </li> <li>- Complies with FCC Rules Part 15 <ul style="list-style-type: none"> <li>• CFR 47 Part 15: 2006</li> </ul> </li> </ul>
Standard Accessories (Supplied with Receiver)	<ul style="list-style-type: none"> <li>- Soft carry bag</li> <li>- Quick guide</li> </ul>

## C. VM-550FF Transmitter

Item	Parameter						
Construction	High impact ABS						
Weight	2.47 (1.12kg)						
Dimension	18.1in x 3.5in x 2.6in (46cm x 9.0cm x 6.5cm)						
Power Supply	4 x alkaline "D" cells						
Battery Life	At 70°F (21°C) - continuous use <table> <tr> <td><b>Power</b></td> <td><b>Alkaline</b></td> </tr> <tr> <td>Full Power</td> <td>28 hours</td> </tr> <tr> <td>Low Power</td> <td>150 hours</td> </tr> </table>	<b>Power</b>	<b>Alkaline</b>	Full Power	28 hours	Low Power	150 hours
<b>Power</b>	<b>Alkaline</b>						
Full Power	28 hours						
Low Power	150 hours						
Power Output	<ul style="list-style-type: none"> <li>- In accordance with FCC part 15: <ul style="list-style-type: none"> <li>• 1 watt – in High output level</li> <li>• 0.1 watt – in Low output level</li> </ul> </li> </ul>						
Frequencies	<ul style="list-style-type: none"> <li>- <b>Direct connection mode / Clamp mode:</b> <ul style="list-style-type: none"> <li>• 512Hz or 640Hz, 8.192kHz (8192Hz), and 83.1kHz(83100Hz)</li> </ul> </li> <li>- <b>Induction Mode:</b> <ul style="list-style-type: none"> <li>• 83.1kHz (83100Hz)</li> </ul> </li> <li>- <b>Fault Find Mode:</b> <ul style="list-style-type: none"> <li>• 8kFF, Fault locating mode for use with vLoc accessory A-frame or VM-510 ground</li> </ul> </li> </ul>						

	fault locator (8.192kHz amplitude modulated with 8Hz and phase modulated with 2.66Hz) <b>* Modes are selected automatically when accessories are plugged in.</b>
<b>Output Voltage</b>	Maximum output voltage = 60V RMS
<b>Output Current</b>	Maximum output current = 150mA RMS constant current
<b>Audio indication</b>	<ul style="list-style-type: none"> <li>- Connection quality – variable beep rate sound showing the better signal applied</li> <li>- Beep constantly – for high voltage detected</li> </ul>
<b>Visual Indication</b>	LED
<b>Controls</b>	Use pushbuttons to select: <ul style="list-style-type: none"> <li>- Power button: On / Off (Press and hold); Low / High output (Short press)</li> <li>- Frequency select</li> </ul>
<b>Standard Accessories (Supplied with Transmitter)</b>	<ul style="list-style-type: none"> <li>- Direct connection lead (XLR plug with two cables each 10ft (3.5m) long with crocodile clips)</li> <li>- “T” shape ground stake</li> </ul>
<b>Optional Accessories</b>	<ul style="list-style-type: none"> <li>- 2in (50mm) transmitter clamp</li> <li>- 4in (100mm) transmitter clamp</li> <li>- 5in (150mm) transmitter clamp</li> <li>- LPC Separation Filter (to connect and use transmitter on lines carrying up to 240V AC)</li> </ul>
<b>Approvals</b>	<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, EN 61000-4-3, EN 61000-4-2, EN 61000-4-4, EN 61000-4-5, EN 61000-4-8</li> </ul> </li> <li>- Complies with FCC Rules Part 15</li> <li>- CFR 47 Part 15</li> </ul>
<b>Compatible with</b>	vLoc range of receivers with matching frequencies, VM-510FFL Fault Locator

#### D. Environmental and Shipping

Item	Parameter
<b>Temperature Range</b>	Operating: -4°F to 122°F (-20°C to 50°C) Storage : -40°F to 140°F (-40°C to 60°C)
<b>Weather Proof</b>	IP54 and NEMA 4
<b>Shipping Weight (with transmitter)</b>	9.3lbs (4.2kg) (estimation)
<b>Shipping Dimension (with transmitter)</b>	39in(L) x 7.7in(W) x 4.7in(H) (990mm x 195mm x 120mm) (estimation)

#### E. Warranty

Item	Parameter
<b>Warranty</b>	12 months (Limited warranty)

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

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