

A. VM-560 Receiver Typical Applications

Item	Parameter
Description	VM-560 dual frequency locator
Uses	Pipes and cables locator

B. Receiver Assembly

Item	Parameter
Construction	<ul style="list-style-type: none"> - Carbon fiber reinforced antenna tube - High impact thermoplastic (ABS) injection molded housing
Weight	1.41lbs (0.64kg)
Dimensions	34.6in(L) x 3.1in(W) x 2.8in(H) (880mm x 80mm x 70mm)
Digital Display	Indicates depth, signal level and battery condition
Piezo Speaker	Tone frequency increases or decreases with gradient field intensity
Receiver Antennas	3 x ferrite antennas
Batteries	- 2 x AA (LR06) Alkaline batteries
Battery Life	- Alkaline – typically 20 hours continuous use at 70°F (21°C)
Controls	- Pushbutton keypad: On/Off/Speaker, depth and frequency selection
Connectors	- 1 x mini USB socket for programming
Approvals	<ul style="list-style-type: none"> - Complies with European standard CE (Directive 99/5/EC) <ul style="list-style-type: none"> • EN 55011 • EN 61000-4-2 • EN 61000-4-3 • EN 61000-4-8 - Complies with FCC Rules Part 15 <ul style="list-style-type: none"> • CFR 47 Part 15: 2006
Standard Accessories	<ul style="list-style-type: none"> - Soft carry bag - Quick guide

C. Receiver Operational

Item	Parameter
Configuration	<ul style="list-style-type: none"> - On/off/speaker <ul style="list-style-type: none"> • Short press to turn on • Short press toggles volume (On, Off) • Long press to turn off - Auto Time Off <ul style="list-style-type: none"> • Unit will shut down if no control button is touched for 15 mins. - "+" increases sensitivity - "-" decreases sensitivity - Depth button <ul style="list-style-type: none"> • Short press for depth measurement • Long press for frequencies selection
Operating Frequencies	Passive: 50Hz or 60Hz Active: 8kHz (8192Hz), 480kHz (480000Hz)

D. VM-560 Transmitter Typical Applications

Item	Parameter
Description	Pipe & cable locator transmitter
Uses	Transmitting active signals for the location of buried pipes and cables

E. Transmitter Assembly

Item	Parameter
Construction	High impact ABS
Weight	1.41 lbs (0.64kg) (Excluding battery)
Dimension	16.9in(L) x 3.1in(W) x 1.7in(H) (430mm x 79mm x 44mm)

Power Supply	- Standard battery pack - using 4 x alkaline "D" cells																		
Battery Life	At 70°F (21°C) - continuous use																		
	<table border="1"> <thead> <tr> <th>Frequency</th> <th>Power</th> <th>Output Power</th> <th>Alkaline</th> </tr> </thead> <tbody> <tr> <td rowspan="2">8.2 kHz</td> <td>Full Power</td> <td>1 watt</td> <td>28 hours</td> </tr> <tr> <td>Low Power</td> <td>0.1 watt</td> <td>150 hours</td> </tr> <tr> <td rowspan="2">480 kHz</td> <td>Full Power</td> <td>0.7 watt</td> <td>25 hours</td> </tr> <tr> <td>Low Power</td> <td>0.09 watt</td> <td>100 hours</td> </tr> </tbody> </table>	Frequency	Power	Output Power	Alkaline	8.2 kHz	Full Power	1 watt	28 hours	Low Power	0.1 watt	150 hours	480 kHz	Full Power	0.7 watt	25 hours	Low Power	0.09 watt	100 hours
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480 kHz	Full Power	0.7 watt	25 hours																
	Low Power	0.09 watt	100 hours																
External Connectors	- 1 x 3 pin connection socket – (XLR)																		
Output Protection	Output protected against accidental connection to up to 240V AC (50/60Hz)																		
Approvals	<ul style="list-style-type: none"> - Complies with European standard CE (Directive 99/5/EC) <ul style="list-style-type: none"> • EN 55011 • EN 61000-4-2 • EN 61000-4-3 • EN 61000-4-4 • EN 61000-4-5 • EN 61000-4-8 - Complies with FCC Rules Part 15 <ul style="list-style-type: none"> • CFR 47 Part 15: 2006 																		
Standard Accessories (Supplied With Transmitter)	<ul style="list-style-type: none"> - 1 x direct connection lead (XLR plug with two cables each 10ft (3.5m) long with crocodile clips) - 1 x T type ground stake 																		
Optional Accessories	<ul style="list-style-type: none"> - Transmitter only "shoulder bag" - 2in (50mm) transmitter clamp - 4in (100mm) transmitter clamp - 5in (125mm) transmitter clamp - LPC Separation Filter (to connect and use transmitter on lines carrying up to 240V AC) 																		

F. Transmitter Operational

Item	Parameter													
Location Modes	<ul style="list-style-type: none"> - Induction mode – applies signal inductively using internal antenna - Direct connection mode - applies signal directly to the cable by clipping one output lead to the cable, the other to an independent ground - Clamp mode – applies signal using an inductive clamp (toroid) that is placed around the target cable <p>* Modes are selected automatically when accessories are plugged in. * Default mode (no accessories) is induction.</p>													
Transmitting Frequency by Mode	<ul style="list-style-type: none"> - Direct connection mode / Clamp mode: 8.2 kHz (8192Hz) / 480 kHz - Induction Mode 480 kHz 													
Transmitting Mode Power output	In accordance with FCC part 15: <table border="1"> <thead> <tr> <th>Frequency</th> <th>Output level</th> <th>Power</th> </tr> </thead> <tbody> <tr> <td rowspan="2">8.2 kHz</td> <td>High</td> <td>1 watt</td> </tr> <tr> <td>Low</td> <td>0.1 watt</td> </tr> <tr> <td rowspan="2">480 kHz</td> <td>High</td> <td>0.7 watt</td> </tr> <tr> <td>Low</td> <td>0.09 watt</td> </tr> </tbody> </table>	Frequency	Output level	Power	8.2 kHz	High	1 watt	Low	0.1 watt	480 kHz	High	0.7 watt	Low	0.09 watt
Frequency	Output level	Power												
8.2 kHz	High	1 watt												
	Low	0.1 watt												
480 kHz	High	0.7 watt												
	Low	0.09 watt												
Output Voltage	Maximum output voltage = 60V RMS													
Output Current	Maximum output current = 150mA RMS constant current													



Audio indication	-Connection quality – variable beep rate sound showing the better signal applied - Beep constantly – for high voltage detected
Controls	Use pushbuttons to select: - Power button: On / Off (Press and hold); Low / High output (Short press) - Audio button: Off / Low / High (Short press)
Compatible With Receivers	VM-560
Compatible Accessories	Signal Clamp, 2in Clamp, 4in Clamp, 5in Clamp, Flexible Clamp

G. Features

Item	Parameter
Enhanced Features	<ul style="list-style-type: none"> - Enhanced ergonomic design - Visual and audible output - Superior sensitivity over wide temperature range - Weather resistant - Lightweight - High-impact construction - Rugged - Compact - High rejection of power source interference

H. Environmental

Item	Parameter
Temperature Range	Operating: -4°F to 122°F (-20°C to 50°C) Storage : -40°F to 140°F (-40°C to 60°C)
Weather Proof	IP54 and NEMA 4
Shipping Weight (receiver and transmitter)	14.3lbs (6.5kg) (estimation)
Shipping Dimension (receiver and transmitter)	3.6in(L) x 4.9in(W) x 37in(H) (85mm x 125mm x 940mm) (estimation)

I. Warranty

Item	Parameter
Warranty	12 months (Limited warranty)

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

Your Texas Vivax-Metrotech Dealer:

Indepth Utility Solutions LLC

4100 Greenbriar Dr., Suite 240
Stafford, TX 77477
Phone: **281-969-8530**
Email: info@indepthUS.com
Website: www.indepthUS.com

