VIVAX METROTECH

VM Series Locators

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VM-810 and VM-850 Utility Locators

Using the correct frequency makes a world of difference when locating buried utilities. The depth of the utility, size, material, and amount of congestion (proximity of other utilities) all need to be taken into consideration for the correct frequency selection. Large diameter, direct buried pipes with bell housing ends that use insulators and rubber gaskets, such as water or gas require a higher frequency while smaller diameter, well-grounded direct buried or long distance in conduits work, better with a lower frequency.

The **VM-810** operates at 83.1kHz which is ideal for water and gas utilities which generally are larger pipes with bell housings and gaskets. The VM-810's higher frequency is also good for locating ungrounded small diameter drop wires and inducing signals through the soil, onto services when direct connecting is not an option.

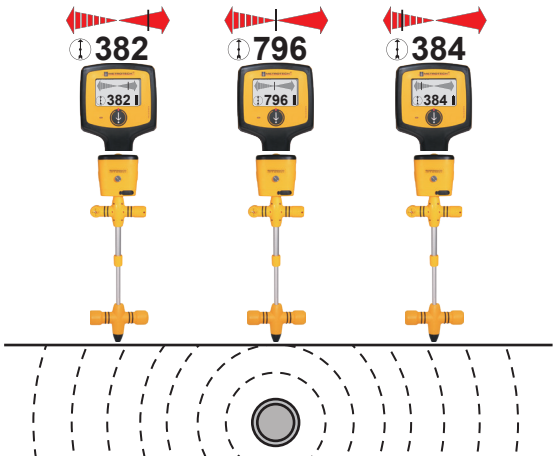
The **VM-850** operates at a much lower frequency of 9.82kHz which is ideal for smaller diameter utilities such as CATV, power and telephone with less bleeding onto adjacent services.

VM-810/VM-850 Features:

- **Simple** - Single button operation
- **Intuitive** - Distance Sensitive Left/Right Guidance™
- **Efficient** - "Real Time" fully automatic gain
- **Accurate** - Depth and current readout
- **Compact** - Lightweight rugged design

Distance Sensitive Left/Right Guidance™

This feature enables the locator to find which antenna is receiving the strongest signal and therefore indicate which direction one should move to be over the buried line.



VM-550 and VM-560 Utility Locators

Peak locate response with accompanying audio tone

Push button depth reading

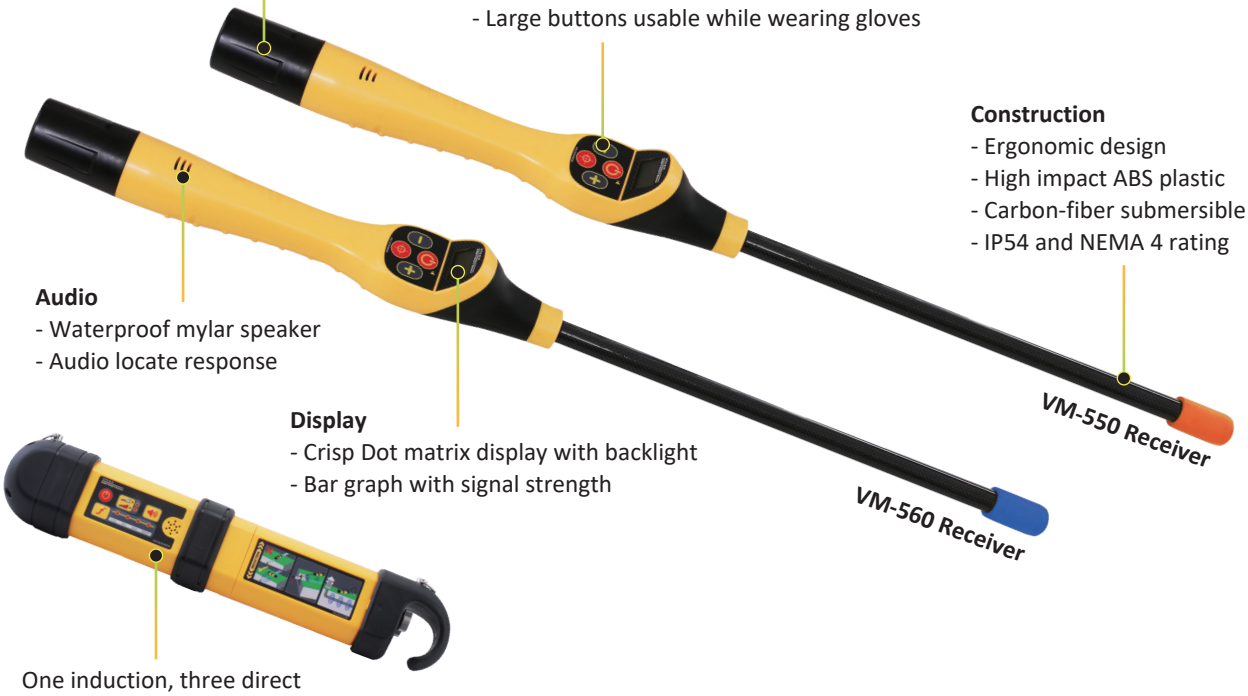
Batteries
- Powered by Two AA Alkaline batteries
- Over 20-hours of continuous usage

Operation
- Simple four button operation
- Large buttons usable while wearing gloves

Construction
- Ergonomic design
- High impact ABS plastic
- Carbon-fiber submersible tube
- IP54 and NEMA 4 rating

Audio
- Waterproof mylar speaker
- Audio locate response

Display
- Crisp Dot matrix display with backlight
- Bar graph with signal strength



One induction, three direct connect and a fault find frequency

The **VM-550 and VM-560** are general-purpose locators used to detect buried pipe and cable services in a variety of situations.

With a 50/60Hz passive power locating frequency and three active frequencies, the VM Series Utility Locators will meet the requirements of those wishing to detect the presence of active power cables and to trace short ranges. The VM Series Locator transmitters also has the additional frequency of 8kHz Fault-find so it can be used to detect the presence of ground to sheath faults on cable when used with the VM-510 Stand Alone A-Frame fault locator.

The 1-Watt Transmitter applies a locate frequency by direct connection or induction. Optional Induction Clamps can be used to clamp around a line and induce the locate signal onto it.

VM Locator Model	Frequency Range
VM-550 Utility Locator	50/60Hz*, 512/640Hz*, 8.19kHz, 83.1kHz and 8kHz FF
VM-560 Utility Locator	50/60Hz*, 512/640Hz*, 8.19kHz, 480kHz and 8kHz FF

* North American versions use 60Hz power and 512Hz low frequency.
* All other versions use 50Hz power and 640Hz low frequency.

VM-585 Locator and Ferrous Metal Detector

The **VM-585** is a combination of the popular VM-550 utility locator with the added benefit of a built in Ferrous Metal Detector. This makes it ideal for locating short distance runs such as service drops and to detect buried ferrous metal objects such as buried valve box covers, buried tanks, and manhole covers.

The advanced filtering of the VM-585's metal detector rejects materials such as bottle caps and aluminum cans and zeros in on finding only ferrous materials. The manual gain control allows it to be controlled and able to work close to large metal objects such as automobiles and chain link fences while still looking for the targets underground. The VM-585 will locate through asphalt, concrete, or grass and in temporary conditions such as snow.

Gone are the days of needing two different instruments to locate utilities and valve box covers. The combination VM-585 will do both in one compact lightweight kit. Expand the range of the VM-585 to detect the presence of ground to sheath faults on cables by adding the optional VM-510 Stand Alone A-Frame fault locator.

Peak locate response with accompanying audio tone

Push button depth reading

Batteries
- Powered by Two AA Alkaline batteries
- Over 20-hours of continuous usage

Display
- Crisp Dot matrix display with backlight
- Bar graph with signal strength

Audio
- Waterproof mylar speaker
- Audio locate response

Operation
- Simple four button operation
- Large buttons usable while wearing gloves

Construction
- Ergonomic design
- High impact ABS plastic
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- IP54 and NEMA 4 rating


One induction, three direct connect and a fault find frequency

VM-480B Split Box Locator

The **VM-480B** (half being the transmitter and half being the receiver) utility locator is a versatile locating instrument designed for locating and tracing the path of pipes and cables; detecting energized 50Hz/60Hz power lines; and when mounted on an optional carrying handle, conducting blind searches, ground surveys, and locating underground metal masses. Depth measurement is accomplished using the triangulation method.

The operating frequency of 83kHz is ideal for locating buried water lines, gas lines, and tracer wire while the passive power mode will locate energized power lines.

Popular Accessories

	VM Series Accessories	 VM-480B	 VM-550 VM-560 VM-585	 VM-810	 VM-850
	**Direct Connection Leads** including a heavy duty version for hydrants, cabinets and large connection points and a Telecom version with bed-of-nails type clip to pierce the cables jacket and gain access to the shielding.	–	●	●	●
	**Ground Extension Leads** for extending the ground source and making double ended connections. Available in 32' / 10m and 98' / 30m lengths.	●	●	●	●
	**The live Cable Connector** is usable on live cables up to 480V AC 60/50Hz. The Live Cable Connector operates on frequencies of 8kHz or 33kHz. Note that the Live Cable Connector should only be used by approved operatives adhering to company regulations and work practices while using appropriate safety equipment and clothing.	–	●	●	●
	**Live Plug Connector** is used to safely inject a locate frequency onto a live cable via a domestic power socket to trace the services from the building to the connection in the street. It is suitable for connecting to voltages between 100V AC and 250V AC.	–	●	●	●
	**VM-480B Search Handle** is used with the VM-480B (locator not included) to perform an induction sweep. By keeping the receiver and transmitter boxes of the VM-480B at the same height and set distance apart, it is easy for an operator to perform a passive induction sweep of an area.	●	–	–	–
	**Induction Clamps** are used inducing a signal onto a conductor when direct connection is not possible. Various sizes of 2", 4", or 5" for clamping around the target and a 18" flexible clamp for clamping around a drop from a pole.	● (4" version only)	●	●	●
	Clamp Extension Rods are made of plastic non-conductive materials with male and female fittings allowing them to be screwed together to extend the length. An attached induction clamp can be safely used on overhead lines and lines in trenches or manholes.	●	●	●	●
	**VM-510FFL+ Standalone A-frame** locates both the suspect cable and find fault up to 2 Mohm ground faults on it when used with a transmitter with 8kHz fault-find frequency. The VM-510FFL+ uses an audible Left/Right cable path locate function and Forward/Back directional arrows that point to the fault.	–	●	–	–
D22 Sonde	**Sondes** are battery powered transmitters used to trace the path of both non-metallic and metallic pipes and ducts. A receiver in sonde mode tuned to the same frequency can locate the position and depth to the sonde. **D22 Sonde** is 0.8" x 4.1" (22mm x 104mm) with a range of 8ft / 2.4M. It is available in frequencies of 9.82kHz or 83kHz.	●	–	●	●
 D38 Sonde	**D38 Sondes** are 1.5" x 4.8" (38mm x 122mm) with a range of 16.3ft / 5M. It is available in frequencies of 9.82kHz, 33kHz or 83kHz.	●	–	●	●
 D64 Sonde	**D64 Sondes** are 2.4" x 7.1" (60mm x 180mm) with a range of 26ft / 8M. It is available in frequencies of 9.82kHz, 33kHz or 83kHz.	●	–	●	●

* " ● " = compatible accessory
* " – " = not compatible

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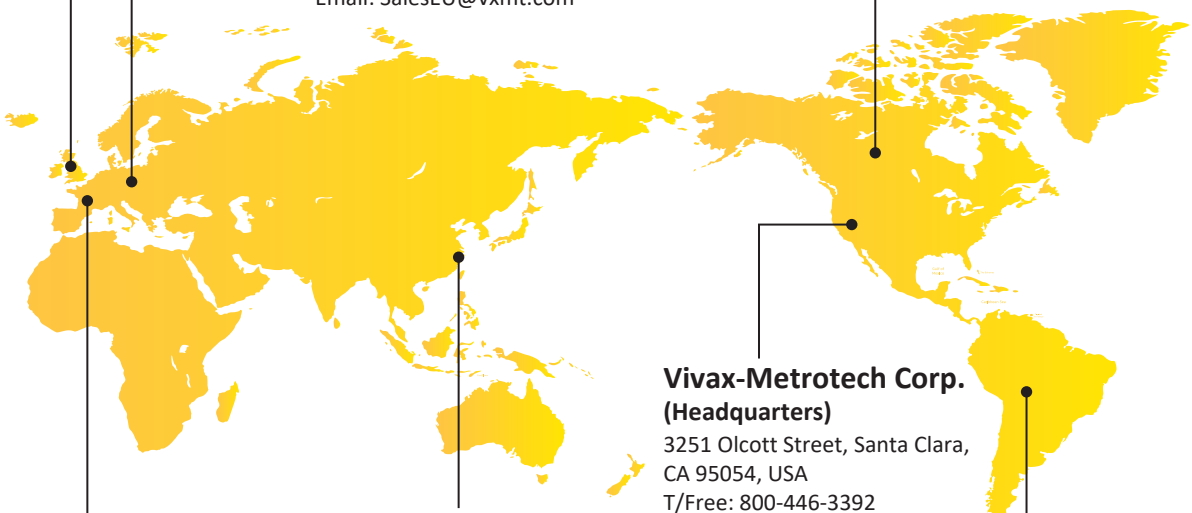

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