

# VM-810 and VM-850 Utility Locators

## The Simplicity of One-Button Locating

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. Both the VM-810 and VM-850 have sonde modes to aid in the location of non-metallic pipes and ducts.

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

## VM-810 / VM-850 Features



**Line mode** shows left/right guidance with compass.  
Depth reading in imperial or metric units with current measurement.

**Sonde mode** shows left/right guidance with compass.  
Depth reading in imperial or metric units.

240V AC Output protection

Induction, Direct Connect and  
Clamp modes

Large keypad usable while  
wearing gloves

High and low out put control

### Transmitter Power

**VM-810** - Six D Cell alkaline batteries  
provide over 60-hour of battery life.

**VM-850** - Internal Li-ion rechargeable  
battery provides over 40-hour of  
intermittent usage.

Speaker Volume Control

Telescoping tube for compact storage

Left/right guidance with compass  
indicator in line and sonde modes

2.7"/68mm (400x240)  
TFT Display with backlight

Single-button operation

Two D-Cell alkaline batteries  
provide 65-hour of battery life

Audio guidance tone matches  
left/right guidance display

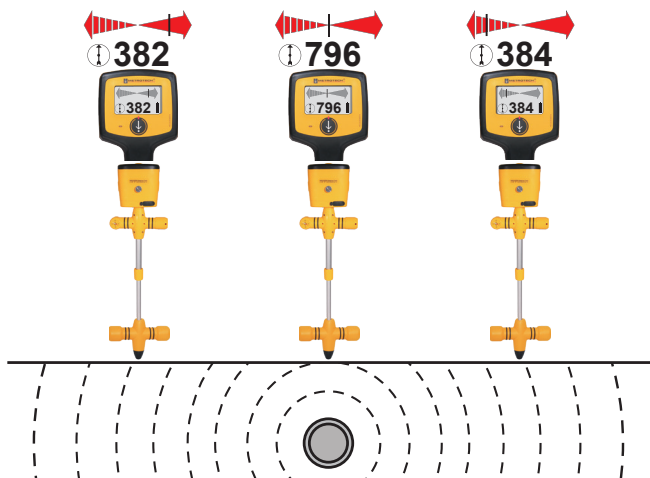
# VM-810 and VM-850 Utility Locators

## Simultaneous Peak/Null - Saves You Time

The combination of Left/Right Guidance, signal strength, audio tone, and automatic gain provide intuitive Peak and Null locating. A visual centerline marks the location of your utility (peak). Simultaneously, the highest signal strength and sudden tone silence pinpoint the centerline (null). Automatic gain enhances these features by providing the best possible gain.

## Distance Sensitive Left/Right Guidance™ - Shows Your Path

The LCD centerline guides you to your target conductor. A needle moving to the right (steady tone), guides you to the right. Moving left (pulsing tone), guides you left. A centered needle, high signal-strength, and silent tone positions you directly over your target.



## Popular Accessories



**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.



**Sondes** are small self-contained battery powered transmitters. Sondes are propelled through non-metallic pipes and ducts and can be located on the surface by a sonde locator or buried utility locator with a sonde mode.



**Ground Extension Leads** for extending the ground source and making double ended connections. Available in 32' / 10m and 98' / 30m lengths.



**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.



**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.