

Brief on operations (locating)

for Cable Route Tracers

The **Transmitter** (Signal Generator) is used to apply a signal constant current to the ground bed and cable returns the signal back to the transmitter. The **Receiver** takes measurements along the route of cable / pipe and find out the results directly onto the receiver screen

**Passive Mode** (Use Receiver only):

- 50 Hz; sweep the area for locating energised power cables

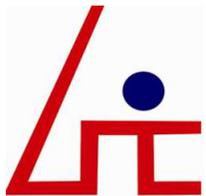
**Induction Mode:** Switch ON receiver and transmitter, select same frequency on both receiver and transmitter. Make a minimum distance of 5 Meter between them and start locating while moving both in one direction. Suitable for all conductors buried for minimum 25 Meter in length.

**Direct Connection Method:** Connect output cable to transmitter. Connect Red lead to conductor and black lead to independent ground stake. Select same frequency on both receiver and transmitter and start locating. Transmitter is stationary. Depth measurement is available and suitable for all conductors buried for minimum 25 Meter in length.

**Clamp method (optional):** Connect clamp to transmitter and to conductor. Select same frequency on both receiver and transmitter and start locating. Transmitter is stationary. Depth measurement is available and suitable for all conductors buried for minimum 25 Meter in length.

**Duct Rod and Duct Tracer (optional):** Connect to duct rod for locating duct blockage by locating the Sonde transmitter location. Connect to duct tracer having copper wire; locate the duct and duct blockage point.

May please contact us for further information / assistance:



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## Cable Route Tracer

(Light weight and cost effective solution for Cable Route Tracing)



VM-550 Receiver



1 Watt Transmitter



5 Watt Transmitter



10 Watt Transmitter

VM-550 Series Cable Route Tracers

### Simplifying underground **Cable Route Tracing**

- Dual frequency locator
- Enhanced ergonomic design
- Compact, light weight and rugged
- High impact construction
- Visual and audible output
- Superior sensitivity over wide temperature range
- Weather resistant
- High rejection of power source interference
- Screen invert feature
- Locating Modes: Passive, Clamp, Induction & Direct connection
- Ferrite Antennas assembly
- Push Button Depth measurement up to 3 M
- Carbon Fiber Reinforced Antenna Tube and ABS housing
- Digital Display indicates Polarity, Signal Level, Battery Condition and Power Signal Warning
- Auto Time Off feature
- Transmitter options: 1 Watt / 5 Watt / 10 Watt
- Operating Temp.: -20 Degree to +50 Degree
- Weather Proof: IP54 & NEMA 4
- Cost effective

# USING LATEST TECHNOLOGIES FOR BETTER PRODUCTIVITY AND BUSINESS PROFITS

## Technology at work for your

### Overview:

The **VM-550** pipe and cable locator is general purpose locators used to detect buried pipe and cable services in a variety of situations. The **VM-550** has achieved a compact and lightweight design without compromising strength and performance.

With a choice of frequencies 8kHz and 83kHz the **VM-550** is designed to meet the requirements of those wishing to detect the presence of active power cables and also wishing to trace the route of pipe and cable.

The **VM-550** transmitter can supply a very useful 1 Watt / 5 Watt / 10 Watt signal power. Signal application can be either direct connection or, if there is no access point, Induction. With the addition of the optional signal clamp the transmitter can be applied to the target line no matter what the situation.

The **VM-550 Series Pipe and Cable Route Locator** uses the latest Technology. Standard equipment comprising of VM-550 Receiver with alkaline batteries, Transmitter with alkaline batteries, Connecting Leads, Ground Stake, Printed Quick Guide and Soft carry bag.

### Technical Specifications-Receiver

#### **VM 550 Receiver:**

- Dual frequency
- Carbon fiber reinforced glass fiber antenna tube
- High impact thermoplastic (ABS) injection moulded housing
- Digital display indicates Polarity, Signal level, Battery Condition and Power Signal warning
- Tone frequency increases or decrease with gradient field intensity
- 03 Nos. x Ferrite Antennas
- Keypad for On/Off/Speaker, Sensitivity, Depth & Frequency Selection
- 02 Nos. x AA Alkaline Batteries
- Battery back-up of 20 Hours
- Operative frequencies: 8kHz, 83kHz & 50 Hz
- Weight: App. 0.64 Kg. (without batteries)
- Dimension: App. 880 x 80 x 70 mm
- Temperature range: -20 Deg. C to + 50 Deg. C
- Weather proof: IP54 & NEMA 4
- Soft carry bag
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### Technical Specifications-Transmitters

#### **1 Watt Transmitter:**

- Dual Frequencies
- Input supply: Internal 04 Nos. X Alkaline 'D' Cells
- Power Output (Transmitting Mode): 1 Watt (max.)
- Max. Output Voltage: 60V RMS
- Max. Output Current: 150mA RMS constant current
- Output Protection against accidental connection up to 240V AC, 50Hz
- LED Indication
- Dimensions: 430L x 79W x 44H in mm
- Weight: App. 0.82 Kgs. (without batteries)
- Environment: Operating temperature (-20 to + 50 Degree), IP54

#### **5 Watt Transmitter:**

- Multi-Frequencies
- Input supply: Internal 08 Nos. X Alkaline 'D' Cells
- Power Output (Transmitting Mode): 5 Watt (max.)
- Max. Output Voltage: 30V RMS
- Max. Output Current: 300mA RMS constant power
- Output protection fuse 500mA
- Monochrome dot matrix Display
- Dimensions: 318 x 243 x 58 mm
- Weight: App. 4 Kgs. (without batteries)

#### **10 Watt Transmitter:**

- Multi-Frequencies
- Input supply: Internal 12 Nos. X Alkaline 'D' Cells
- Power Output (Transmitting Mode): 10 Watt (max.)
- Max. Output Voltage: 36V RMS
- Max. Output Current: 1000mA RMS constant power
- Output protection fuse 1.25A
- Monochrome dot matrix Display
- Dimensions: 420 x 180 x 185mm
- Weight: App. 5 Kgs. (without batteries)
- Environment: Operating temperature (-20 to + 50 Degree), IP54

#### **Optional Accessories:**

- Ni-MH rechargeable battery (internal) with charging kit for 5 Watt and / or 10 Watt transmitter
- 5" Inductive Clamp

(All above information; subject to change without notice)