

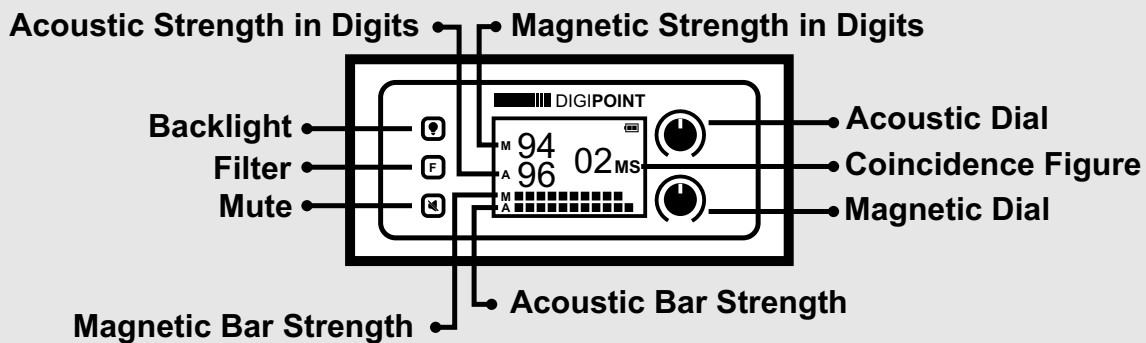
Techno Instrumentation(India) Pvt. Ltd.

Manufacturer of underground power cable fault locators



Digipoint

- Magnetic and Acoustic signal strength through bar graph and digits on LCD.
- Coincidence figure indicates the relative distance to the fault in milliseconds(ms).
- LCD screen with backlight feature for night.
- Background noise reduction and noise immunity.
- Built to withstand rugged field conditions with high grade acoustic and magnetic sensors.
- Filter and Mute function in the receiver unit.
- Easy, fast and accurate pinpointing.



Description

It is used with a Surge Generator to determine the exact position of faults in underground power cables.

Pinpointing the exact location of the fault

The surge generated by the surge generator will create an acoustic signal at the fault point. The Digipoint displays the strength of that signal through strength bars and digits on an LCD screen. The headphones help users to hear the sound generated.

Route indication of cable under test

It indicates the route of the cable under test by sensing and amplifying the electromagnetic signals produced at the time of surging and displays the magnetic strength of those signals through strength bars and digits on an LCD screen.

Coincidence Figure

Pinpointing the exact location of faults in cables which are laid inside pipe is very difficult because the air inside the pipe will lead to echo of sound which is generated at the fault point, leading to sound/acoustic signal of strength similar to the fault point at different parts of the cable, hence to pinpoint the exact location of fault in these conditions we use the **coincidence feature** of the Digipoint, which gives the **distance to the fault in milliseconds** with respect to your position.

Technical Data

Receiver

Signal Input	Balanced from sensor (Acoustic) From coil housed in receiver (Magnetic)
Supply Current (No Signal)	3 mA
Input Resistance (Input to Ground)	2 kilo-ohm
Control	Gain control for Acoustic signal and Sensitivity control for Magnetic signal
Acoustic Indication	Strength bar graph and digits on LCD and Sound through headphone
Magnetic Indication	Strength bar graph and digits on LCD
Gain	> 65 db (Acoustic) > 76 db (Magnetic)
Frequency	270 Hz to 3 KHz (Acoustic) 100 Hz to 10 KHz (Magnetic)
Coincidence figure range	0 to 99 milliseconds (ms)
Supply	12 V DC (AA battery x 8)
Operation time	> 30 hours
Dimensions	25.6 x 11 x 9 cm (Lbh)
Weight	1.4 Kg with batteries (approx.)

Sensor

Damping	70 %
Sensitivity	0.02 V/mm/sec
Connecting Cable length	1.5 meter
Dimensions	8.5 cm (Diameter) & 18 cm (Height)
Weight	1.1 kg with rod (approx.)

Headphone

General	Dynamic headphones with padding and adjustable headband
Impedance	32 ohms