

TFL 4 Cable Fault Pre-locator



Description

Cable Fault Pre-locator TFL 4 is a menu driven microprocessor based cable fault pre-locator is designed for ease of use.

It works with Time domain reflectometer principle (TDR / Pulse reflection) for measuring the exact fault location such as the open / broken circuit or short circuit faults, cross faults, earthing faults in any metallic power, telecom and signal cables as well as plastic cables.

It is compact and light weight and most suitable for field application.

It uses state of the art digital technology for precise location of faults in underground metallic cables.

The advanced circuitry utilizes high-speed sampling for better resolution of echo grams.

It is an effective equipment to reduce trouble shooting time, improve work efficiency and reduce labor intensity of cable maintenance staff.

Application

Cable Fault Pre-locator is used to pre-locate short circuit, open circuit cable faults distance in TDR mode in power transmission & distribution / telecom network companies or any metallic cables.

Features

- TDR mode
- Measurement maximum 8 km in selectable ranges.
- Portable design and easy to use.
- Menu driven operation.
- Tests any type of telecom, coaxial, network or power metallic cables.
- Comparison between healthy with faulty cables.
- Use of high speed Micro-controller.
- Automatic selection of Range, VOP and Gain in Auto mode.
- Automatic and Manual testing mode.
- Fully English Menu is easy to master and use.
- Color LCD Display
- Six function keys and simple operation.
- Pulse reflection testing (TDR) can test broken/open, short type of faults in all metallic cables.
- USB Pen drive, it is easy to upload memory data to computer.
- Rechargeable lithium battery with intelligent charger
- Continued 8 hours operating time on internal battery.
- Small size, light weight and Palm-held unbreakable ABS plastic housing.
- Rugged construction and easy to carry on site.



Working Principle

A narrow electromagnetic frequency pulse of 40ns - 6us with a fast rise time is sent on the cable that reflects back from the fault point /far end where the impedance was mismatch or change.

The velocity of propagation (VOP) for each cable depending on the cable dimension and material is set and the distance to the fault is then computed automatically and displayed in meters on LCD screen.

Standard Accessories

- Carrying case
- Re-chargeable battery charger / Adapter
- Connecting test cables
- Software CD
- 8GB Pen Drive
- Instruction / User Manual

Standard Warranty	One Year
Other models available	Cable Fault Pre-locator TFL 5

Specifications

Fault Distance Range	8 km (Auto - 4km, Manual - 8km)	VOP Range	100 - 300 Adjustable
Measurement Mode	TDR (Time Domain Reflectometer)	Sampling Speed	100 MHZ
Fault Accuracy	1 Meter	Memory Location	USB
Pulse Width	40 ns - 6 us Auto - Adjusting	Resolution	1 Meter
Pulse Waveform	Pulse wave	Gain Range Control	0 - 99 Adjustable
Pulse Amplitude	0 - 30 V Auto Adjustment	Power Supply	7.2 V
Output Impedance	100 Ohm	Power Consumption	1 W
Auto Switching	In built timer automatically switches off after 5 minutes	Storage Temp.	-15 Deg C ~ + 55 Deg C
Auto / Manual Measurement Dead Zone	0 Meter	Working Temp.	-15 Deg C ~ + 45 Deg C
		Dimensions	200 (H) x 100 (W) x 36 (D) mm
		Weight	0.4 Kg Approx

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