UNDERGROUND CABLE FAULT LOCATING EQUIPMENTS & SYSTEMS

TFL 5 **Cable Fault Pre-locator**

Description

Cable Fault Pre-locator TFL 5 is a menu driven microprocessor based designed for easy use. It works on Time Domain Reflectometer principle (TDR/Pulse reflection) of measurement the exact fault location for open circuit and short circuit fault, cross fault, earth fault in any metallic power, telecom, signal and power plastic cables.

It is compact, light weight and most suitable for field application. It uses state of the art digital technology for precise location of fault in underground metallic cables.

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

The equipment incorporates a unique feature of automatic placement of measuring cursor at fault point in auto mode.

This makes it totally user friendly and any operator having minimum knowledge can successfully locate the fault. Simply select the modes which you are going to use, Distance ,VOP, Gain and Range are automatically selected and adjusted as you scan the cable. Just move the cursor to the fault to pin-point its location.

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

Application

It is used to pre-locate short circuit, open circuit cable fault distance in power transmission, distribution, telecom and signal network 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 cables.
- Comparison between healthy with faulty cables.
- Use of high speed Micro-controller.
- Automatic selection of Range, VOP and Gain.
- Automatic testing mode.
- Manual testing function is preserved.
- Color LCD Display (480 x 280 dots) humanized operation interface.
- Six function keys and simple operation.
- Pulse reflection testing (TDR) can test broken/open, short type of faults in all metallic cables.
- With Pen drive, 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.

QUALITY SYSTEM CERTIFICATION DNV·GL ISO 9001:2015

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Working Principle

A narrow electromagnetic frequency pulse of 40ns -10us with a fast rise time is sent on the cable that reflects back from the fault point / far end where the impedance is mismatched or changed.

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 meter 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 4**

Note - Available in 16 km & 32 km Range

Specifications

Fault Distance Range	8 Km (240m, 480m, 1000m, 2000m, 4000m, 8000m)
Measurement Mode	TDR (Time Domain Reflectometer)
Fault Accuracy	1 Meter
Pulse Width	40 ns - 10 us
Pulse Waveform	Two polarity pulse
Pulse Amplitude	0 - 30 V Adjustment adaptive
VOP Range	100 - 300
Impedance Matching	Automatic
Gain Adjustment	Automatic and Manual
Testing Accuracy	± 1% × Cable length
Measurement Dead Zone	0 Meter
Auto Measurement Dead Zone	0 Meter
Output Impedance	25 - 120 Adaptive
Sampling Speed	100 MHZ
PC Connectivity	USB
Resolution	1 Meter
Gain Range	1 - 99
Display Readout	Color LCD and 480 * 280
Power Supply	7.4 V Rechargeable Li-on battery
Charging Time	3 Hours
Operating Time	8 Hours
Charging Voltage	230V AC ±10%, 50Hz, Single phase.
Storage Temp.	-15 Deg C ~ + 55 Deg C
Working Temp.	-15 Deg C ~ + 45 Deg C
Dimension	212 (L) × 170 (W) × 90 (H) mm
Weight	1.27 Kg Approx

Telemetrics Equipments Pvt. Ltd.

www.telemetrics.in

Pune

5, 7 & 8 Electronic Sadan II, MIDC,
Bhosari, Pune - 411026
Maharashtra, INDIA.

+91-20-27122936 / 27123176

sales@telemetrics.in

CIN
U99999MH1976PTC 018745

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