

TFL B5 Cable Fault Pre-locator



Description

It is a menu driven microprocessor based cable fault pre-locator is designed for ease of use.

It combines with both Time domain Reflectometer (TDR, pulse reflection) and intelligent bridge testing (Bridge) for measuring the exact fault location such as open / broken

circuit faults, short circuit faults, cross faults, earth faults poor or low insulation faults in telecommunication or signal cables.

It is capable of giving IR test and displays insulation resistance in Meg Ohm in bridge mode.

Application

It is used to pre-locate short circuit, open circuit cable faults distance in TDR and Low insulation faults in bridge mode use in telecom / signal and pilot cable fault location.

Features

- TDR mode & Bridge mode
- Measurement maximum 8 km in selectable ranges.
- Portable design and easy to use.
- Menu driven operation.
- Tests any type of copper telecom and signal 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.
- Both pulse reflection (TDR) and intelligent bridge (Bridge) testing for open, short, or low insulation cable faults. With mega meter it enables to test insulation resistance and loop resistance.
- 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.



Working Principle

TDR Mode

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 was 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.

Bridge Mode

The equipment has menu driven insulation tester capable of giving IR test and displays insulation resistance in Meg Ohm. A healthy core / pair is used to get the loop resistance of the cable under test. When the faulty core/pair is connected to the equipment, balancing of the bridge is done automatically by the intelligent circuit incorporated in the equipment. However, the balancing can also be done manually in specific cases. After the balancing, the result of the fault distance from sending end is displayed on the 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
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Specifications

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

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