



## TFL 5

### Cable Fault Pre-locator

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 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.

## Features

- ✓ TDR mode
- ✓ Measurement maximum 16 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.

## Applications

It is used to pre-locate short circuit, open circuit cable fault distance in power transmission, distribution, telecom and signal network cables.

## Technical Details

### TFL B5

#### Specifications

<b>Fault Distance Range</b>	16 Km (240m, 480m, 1000m, 2000m, 4000m, 8000m, 16000m)
<b>Measurement Mode</b>	TDR (Time Domain Reflectometer)
<b>Fault Accuracy</b>	1 Meter
<b>Pulse Width</b>	40 ns - 10 us
<b>Pulse Waveform</b>	Two polarity pulse
<b>Pulse Amplitude</b>	0-30 V Adjustment adaptive
<b>VOP Range</b>	100 - 300
<b>Impedance Matching</b>	Automatic
<b>Gain Adjustment</b>	Automatic and Manual
<b>Testing Accuracy</b>	$\pm 1\%$ x Cable length
<b>Measurement Dead Zone</b>	0 Meter
<b>Auto Measurement Dead Zone</b>	0 Meter
<b>Output Impedance</b>	25 - 120 ohms (Adaptive)
<b>Sampling Speed</b>	100 MHZ
<b>PC Connectivity</b>	USB
<b>Resolution</b>	1 Meter
<b>Gain Range</b>	1-99 dB
<b>Display Readout</b>	Color LCD and 480 * 280
<b>Power Supply</b>	7.4 V Rechargeable Li-on battery
<b>Charging Time</b>	3 Hours
<b>Operating Time</b>	8 Hours
<b>Charging Voltage</b>	230V AC $\pm 10\%$ , 50Hz, Single phase.
<b>Storage Temp.</b>	-15°C to +55°C
<b>Working Temp.</b>	-15°C to +45°C
<b>Dimension</b>	212mm(L) x 170mm(W) x 90 (H)mm
<b>Weight</b>	1.27 Kg Approx

#### Standard Accessories

- Carrying Case
- Re-chargeable battery charger / Adapter
- Connecting Test Cables
- Software CD
- 8 GB Pen Drive
- Instruction / User Manual

Note : 1) Specification subject to change without notice. 2) Picture is for illustration purposes only.