UNDERGROUND CABLE FAULT LOCATING EQUIPMENTS & SYSTEMS

TFL 8 **Cable Fault Pre-locator**

Description

The Cable Fault Pre-locator TFL8 is a latest micro-processor controlled, menu driven, digital technology to offer precise to locate fault distance in any type of metallic cables and easy to operate with friendly interface.

It is a portable cable fault locator, easy to use, single-phase unit for cable fault pre-location of short and open faults by using the Low Voltage Impulse method / Time Domain Reflection (TDR) method.

Another Impulse Current method (ICM) is available and use for pre-location of low insulation or intermittent nature cable faults by coupling with high voltage surge tester in low, medium and high voltage cables.

The maximum measuring ranges enable for pre-location of cable faults is 100 km in different selectable ranges.

Application

It is used for pre-location of short circuit, open circuit fault distance in Low Voltage Impulse method and low insulation / high resistance / flashing fault in Impulse Current method ICM with the help of suitable surge tester by power transmission, distribution network companies and cable fault location service providers.

Features

- Two selectable work mode Low Voltage Impulse method (TDR) & Impulse Current method (ICM).
- Capable to locate faults in any type of metallic single core armored or multi-core armored cables.
- Interactive menu-guidance operation with manual and touch screen operation.
- Maximum measuring range up to 100 km.
- Three windows for easy comparison in low impulse method.
- Cursor drag function, easy to locate.
- Internal storage of waveforms.
- Communication with computer through USB port.
- Memory save through USB device for printing of store graph.
- Big 7" color LED screen,160° viewing angle.
- Built-in Polymer Lithium-ion internal rechargeable battery capable of working for maximum 5 hours continuously.
- Gain and zoom adjustment facility.
- Internal battery charge status.
- Intelligent charger for charging of internal batteries.
- Compact, light weight and user friendly menu driven operation.

QUALITY SYSTEM CERTIFICATION DNV·GL ISO 9001:2015

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Working Principle

TDR Mode / Low Voltage Impulse Method
A narrow electromagnetic pulse of 5 nsec with a fast rise time is sent on the cable that reflects back from the fault point / far end where the impedance was change.

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

ICM Mode
A Surge tester applies DC high voltage and high energy surges across the fault to the cable under test that induces a breakdown or flash over across the fault point in the cable and the current transient is developed at the fault point .The transient waves travels back and forth between the surge tester and the fault point. The current transient is measured using a current transformer with a frequency response adequate to resolve only the edges of the current transient. The distance to the fault is then computed automatically and displayed in meters on screen.

Standard Accessories

- Low voltage Impulse (TDR) testing cable
- Impulse current method (ICM)testing cable
- Re-chargeable battery charger / Adapter
- Software CD
- Carrying case
- Instruction / User Manual

Standard Warranty	**One Year**
Other models available	**Cable Fault Pre-locator TFL 6**

Specifications

Operating Mode	Low voltage impulse TDR and Impulse current ICM
Measuring Range	100 km max
Low Voltage of Transmitting Pulse	30 V
Width of Trans-mitting Pulse	5ns
Voltage Withstand	Power : 1500V, Port : 50V
Output Impedance	30 Ohm
Sampling Freq.	200 MHZ
VOP Range	100 ~ 300 meter/sec
Number of Echograms Memories	100 Memories
Gain Range	0 - 70 dB

Resolution TDR Mode	0.425 m
ICM Mode	0.85 m
Display	15.3 * 8.6CM
Dead Zone	2 meter
Charging Input Supply Voltage	230V AC, 50Hz, Current 2A
Charger Output Voltage	8.4 V
Operation Time of Batteries	5 Hours Approx
Storage Temp.	-20 Deg C ~ +60 Deg C
Working Temp.	-10 Deg C ~ +55 Deg C
Dimensions	274 (L) × 240 (W) × 125 (H) mm
Weight	3.5 Kg Approx
Type of Protection	Splash proof and dust protected IP 54 Optional - IP 65

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