

LOCOMP TROLLEY MOUNTED LT CABLE FAULT LOCATING SYSTEM



Description

Telemetrics make trolley mounting cable fault locating LOCOMP system is a basic requirement of any power company. It is a very useful system to localize the underground power cable fault of any nature in short time in low voltage power cable network. The system is designed for stand-alone operation. It provides surge tester of full surge energy of 500 Joules with

2 & 4 kV selectable output voltage for continuous operation for pin-point of cable faults.

It is flexible systems are equipped with mounted cable fault pre-locator with the TDR (Time Domain Reflectometer) mode for pre-location fault distance and highly sensitive surge wave receiver are used for pin-point cable faults.

Application

The cable fault locating system LOCOMP is used for pre-location of fault distance with the help of pre-locator and pin-point cable fault using surge tester in acoustic method with the help of surge wave receiver in low voltage power cable network.

Features

- Optimized surge energy for switchable capacitors values for each range.
- Pin-point location of cable faults in Low voltage cables by acoustic method.
- Output voltage selectable in two ranges 2 & 4 kV.
- High energy of 500 Joules.
- Full energy delivering capacity at each select range.
- Continuously variable output voltage from 0 to 100 % of selected range.
- Fully protected operation with safety interlocks.
- Cyclical pulse repetition for precise pin-pointing of cable faults in Acoustic Method.
- Pre-location of cable fault distance with TDR method.
- Maximum range of 8 km for pre-location of cable faults.
- Auto / Manual mode for pre-location of cable faults.
- Automatic discharging facility of cable under test, in case of power failure or after switching off.
- Continues operation for extended period in case of pin-point difficult cable faults.
- Rugged construction and easy to carry on site.



Working Principle

After successful pre-location of fault distance, surges of high energy are applied to the fault at set voltage and with impulse time interval for pin-pointing the exact point of the cable fault. These surges create noise and vibrations at the fault point.

The intensity of the noise and vibrations get attenuated during their travel to the ground surface. A ground microphone and a sensitive surge wave receiver carried on the route of the cable at pre-located area and pin-point the exact spot of the fault in minimum time.

Function

The system is used to pin-point of cable faults location in Low voltage power cable. It is basically a variable DC high voltage power supply, connected to a high voltage capacitor bank. The value of capacitance is usually selectable by parallel and series combination.

This combination being linked with suitable voltage tapping to give the constant energy output on low voltage / high capacitance or high voltage/low capacitance. This high voltage output is applied to the cable under test through a spark discharge device. The cable fault pre-locator is a microprocessor based equipment and can be used to pre-locate fault distance of faults in TDR mode.

Standard Accessories

- HV Output Cable 6 sq mm single core screen cable 15 meter length with heavy duty clamp.
- Mains supply cable 15 meter length.
- Yellow / Green 10 sq mm earthing cable 15 meter length

Standard Warranty	One Year
Other models available	HT Cable Fault Locating System HICOMP 16 High Voltage Surge Tester SWT 16 Surge Wave Receiver SLE 90 Cable Fault Pre-locator TFL6 / TFL 8 Cable Drums HV, Mains & Earthing 15mtr. each

Specifications

Low Voltage Surge Tester SWT 4

Output Ranges	0 - 2 & 4 kV
Output Energy	500 Joules full energy at each range (Optional 1000Joules)
Impulse Mode	Single and Auto
Auto Impulse Sequence	4 and 8 seconds intervals
Indication	ON / OFF lamp indication Analog moving coil meter for output voltage (kV) Indication Over Heat indication
Protection	Variac zero inter-lock Output cable plug inter-lock HV Switch inter-lock Over Heat Protection Input current Limiter in input supply

General Specifications

Power Supply	230V AC \pm 10%, 50Hz single phase
Operating Temp.	0 deg C to 55 deg C
Storage Temp.	- 5 deg C to 60 deg C
Dimensions	800 (L) x 672 (W) x 950 (H) mm with Rubber wheels.
Weight	95 Kg Approx.

Cable Fault Pre-locator TFL 5

Fault Distance Range	8 Km (240m, 480m, 1000m, 2000m, 4000m, 8000m)
Measurement Mode	TDR (Time Domain Reflectometer)
Pulse Width	40 ns - 10 us
Pulse Amplitude	0 - 30 V Adjustment adaptive
VOP Range	100 - 300
Impedance Matching	Automatic

Surge Wave Receiver SLE 90

Power Supply	1.5 V X 8 AA size batteries
Working Channels	Acoustic and Magnetic
Acoustic Channels	Broad band Filter 70 - 3000 Hz
Magnetic Channels	9820 Hz \pm 10 Hz Bandwidth Filter
Gain	More than 96 dB for both magnetic and acoustic channels
Standard Accessories	Ground Microphone MIC S Headphone & Connecting cables

Note : Please refer separate catalogue of SWT4, TFL5 & SLE 90 for details specifications

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