

SWT 16**HV Surge Tester fault locating instrument**

OPERATING PANEL

Reliable and cost-effective instrument for pre-location & pin-pointing cable faults

Occurrence of cable fault can not be avoided due to many factors. Long outage of a cable from service results in heavy loss of revenue to the power distribution company, production loss to industries as well as unpleasant condition to general public.

This requires an efficient instrument capable of locating the fault in minimum possible time and restoring the supply. SWT 16 is a powerful instrument to pre-locate the fault distance and exactly locate the fault point in a short time. It offers 500J/1000J energy on 4, 8 and 16 KV ranges, that allows its use on LT as well as HT networks effectively.

Pre-location

SWT 16 has built-in current coupler that can be used to get the fault distance measurement carried out on a suitable TDR on Impulse Current Mode. It can also be coupled to other instrument compliments such as Arc Reflection Filter to get reliable results of the fault distance.

Pin-Point Location

Surges of high energy are applied to the fault at the set voltage and time interval for pin-pointing the exact spot on the cable length.

These surges create noise and vibrations at the fault site. 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 SLE 90, carried on the route of the cable on the pre-located area pin-point the exact spot of the fault in minimum time.

Single Impulse and repetitive surges

The instrument has single impulse mode, by which a single shot of surges is applied to the fault for ascertaining the level of fault breaking.

This mode is also necessary for pre-location tests to be carried out with other instrument compliments.

Repetitive timings of 1.5, 3 and 6 second intervals are suitable for pin-pointing the fault.

Safety controls

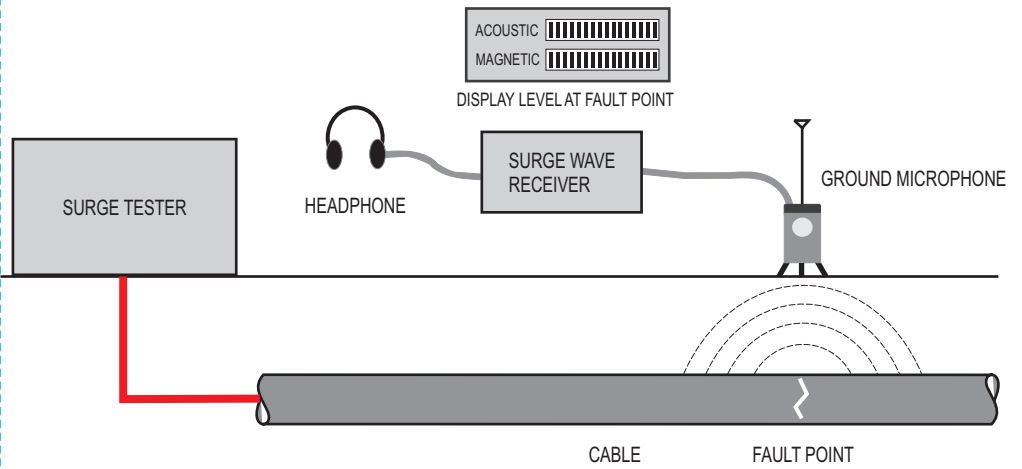
SWT 16 employs safety controls for personnel and instrument safety. Variac zero, HV switch interlock, output cable plug interlock, instant earth discharge of internal capacitor bank and the cable under test at the time of switching off/tripping offer absolutely safe operational condition. Tripping with indication and non operation of the instrument due to over heat condition caused due to any problem, safeguards the instrument for any damage. This safety control resets automatically after cooling down to normal condition.

Customer service

All instruments have been designed based on safety, capability, field application, ruggedness and ease of operations. We try to offer the best possible solutions for the job. We not only offer our after sales services to the customers through our branches / authorized agents, but also offer training to the working staff of the customer under specialized training programs.

Application

SWT 16



Specifications

SWT 16

Power Supply	: 230V AC \pm 10% 50/60 Hz
Output Ranges	: 0-4, 8, 16 kV
Energy Output	: 500 Joules (Optional 1000Joules) Full Energy at each Range
Impulse Sequence	: Single Impulse, 1.5, 3, 6 Sec. Intervals
Indication	: Analog Moving Coil Meter for kV Indication
Protection	: 1) Variac Zero inter Lock 2) Output Plug inter Lock 3) HV Switch inter Lock 4) Over Heat Protection
Dimensions	: 450 (L) x 310 (W) x 580 (H) mm
Weight	: 57Kg.

Receiver to be used with Surge Tester

Surge Wave Receiver SLE 90 with Ground Microphone & Headphone