



SWT 16 Series

High Voltage Surge Tester

High Voltage Surge Tester is useful equipment to pin-point underground power cable fault by acoustic method with a suitable surge wave receiver.

In power cable fault location most of majority faults pin-points test are carried out using a high voltage and high energy HV surge tester.

It offers 500 Joules of energy on 4, 8 and 16 kV selectable ranges, which is use on low and medium voltage cable networks effectively.

It is also used to pre-locate cable fault distance with the help of suitable pre-locator unit in impulse current (ICM) mode.

It has an advance feature to connect arc reflection filter additionally to pre-locate fault distance in secondary impulse SIM/ARM mode with the help of suitable pre-locator unit.

Features

- ✓ Optimized surge energy for switchable capacitors values for each range.
- ✓ Pin-point location of cable faults in Low and Medium voltage cables by acoustic method.
- ✓ Output voltage selectable in three ranges 4, 8, 16 kV.
- ✓ High energy of 2000J maximum at each range.
- ✓ 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.
- ✓ Pre-location of cable fault distance with suitable pre-locator unit in ICM mode.
- ✓ Easy to connect with arc reflection filter and pre-locate fault distance in SIM mode.
- ✓ 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.

Applications

It is used to pin-point underground cable faults in power transmission, distribution cable networks in acoustic mode with the help of suitable surge wave receiver.

Technical Details

16 kV HIGH VOLTAGE SURGE TESTER

Specifications	SWT16	SWT16D	SWT16DS	SWT16DPT	SWT16DPTS	SWT16D2T	SWT16D2PTS	
Impulse								
Voltage range in kV	0-4 / 0 - 8 / 0 - 16							
Energy (at each range) in Joules	500	1000				2000		
Single mode	YES							
Selectable auto frequency per minute	40/20/10							
ARM module	NO		YES	NO	YES	NO	YES	
DC test mode	NO			YES				
Voltage in kV	NA			0-16				
Current in mA	NA			20				
Burn Current in mA 4kV	NA			200				
Burn Current in mA 8kV	NA			100				
Burn Current in mA 16kV	NA			50				
Sheath test (Optional)	NO			YES				
Voltage in kV	NA			0-8				
Current	NA			50				

General Parameters

Input Power Supply	230V AC \pm 10%
Power Frequency	50Hz or 60Hz \pm 5%
Operating temperature	-10 ° C to + 55 ° C
Degree of Protection IP	21

Approximate Weight in KG	60	80	120	150	180	190	200
Approximate size (L x W x H) in mm	450 X 315 X 550	540 X 320 X 615	620 X 400 X 650	620 X 530 X 720	650 X 600 X 720	690 X 630 X 720	690 X 650 X 720

Standard Accessories

50kV High Voltage cable in meter	5
Mains cable in meter	5
Earth cable in meter	5
Rexin cover	YES

Note : A) Standard warranty : 12 months B) Cutomisation in output DC voltage, surge enegery, impulse period also possible based on requirement

C) Cable of other lengths shall be available as per requirement. D) Handles and wheels are not considered in mentioned size.

E) Size and weight may increase for optional features. F) Picture are for illustration purposes only. G) Specification can be changed without any notice.