



SWT 16 Series

High Voltage Surge Tester

The High Voltage Surge Tester is a reliable tool for pinpointing faults in underground power cables using the acoustic method with a suitable surge wave receiver. Most fault pinpointing tests in cable fault location are performed using high voltage and high energy surge testers.

This model delivers 500 Joules of energy across 4 kV, 8 kV, and 16 kV selectable ranges, making it effective for low and medium voltage cable networks. It also supports fault pre-location using a compatible pre-locator unit in Impulse Current (ICM) mode. An advanced feature allows connection of an Arc Reflection Filter to pre-locate fault distance in secondary impulse SIM/ARM mode, enhancing diagnostic precision.

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.
- ✓ Continued operation for an extended period during pinpointing and handling of 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	SWT 16	SWT 16D	SWT 16DS	SWT 16DPT	SWT 16DPTS	SWT 16D2T	SWT 16D2PTS
Impulse Mode							
Voltage range in kV	0-4 / 0 - 8 / 0 - 16						
Energy (at each range) in Joules	500	1000				2000	
Single Impulse	YES						
Selectable auto frequency per minute	40/20/10						
ARM module	NO	YES	NO	YES	NO	YES	
DC test mode	NO		YES				
Voltage range 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 range in kV	NA		0-8				
Current in mA	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						
Ingress Protection	IP21						
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 enegyry, 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.