

# Electrical Test & Measurement Instruments





## SWT 32 SERIES

### High Voltage Surge Tester

The High Voltage Surge Tester SWT32 is designed to locate faults in underground power and control cables using the acoustic method with a surge receiver. It delivers 1000 or 2000 Joules of energy at 8 kV, 16 kV, and 32 kV, with boost capability up to 4000 Joules, making it suitable for low, medium, and high voltage networks.

It supports fault pre-location via a compatible unit in Impulse Current (ICM) mode, and includes an integrated ARM module for enhanced accuracy in SIM/ARM mode. The tester also connects with an Arc Reflection Filter for advanced fault distance pre-location on secondary cables, and features DC Hi-Pot testing for insulation verification.

## Features

- ✓ Optimized surge energy for switchable capacitors values for each range.
- ✓ Pin-point location of cable faults in Low, Medium and High voltage cables by acoustic method.
- ✓ Output voltage selectable in three ranges 8, 16, 32 kV.
- ✓ High energy of 1000 Joules and optional 2000 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.
- ✓ 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

## 32 kV HIGH VOLTAGE SURGE TESTER

Specifications	SWT 32	SWT 32S	SWT 32D	SWT 32DS	SWT 32CPT	SWT 32CPTS	SWT 32DPT	SWT 32DPTS
<b>Impulse Mode</b>								
<b>Voltage range in kV</b>	0-8/0-16/0-32							
<b>Energy (at each range) in Joules</b>	1000	2000		1000		2000		
<b>Single Impulse</b>	YES							
<b>Selectable auto frequency per minute</b>	40/20/10							
<b>ARM module</b>	NO	YES	NO	YES	NO	YES	NO	YES
<b>DC test mode</b>			NO				YES	
<b>Voltage range in kV</b>			NA				0-32	
<b>Current in mA</b>			NA				20	
<b>Burn Current in mA 8kV</b>			NA				300	
<b>Burn Current in mA 16kV</b>			NA				150	
<b>Burn Current in mA 32kV</b>			NA				75	
<b>Sheath test (Optional)</b>			NO				YES	
<b>Voltage in kV</b>			NA				0-8	
<b>Current</b>			NA				75	
<b>General Parameters</b>								
<b>Input Power Supply</b>	230V AC $\pm$ 10%							
<b>Power Frequency</b>	50Hz or 60Hz $\pm$ 5%							
<b>Operating temperature</b>	-10 ° C to + 55 ° C							
<b>Ingress Protection</b>	IP21							
<b>Approximate Weight in KG</b>	113	120	132	140	155	165	190	200
<b>Approximate size (L x W x H) in mm</b>	540X435X650	540X630X650	635X520X740	635X520X740	635X520X740	590X630X720	590X630X720	690X635X720
<b>Standard Accessories</b>								
<b>High Voltage cable</b>	5 m							
<b>Mains cable</b>	10 m							
<b>Earth cable</b>	5 m							
<b>Rexin cover</b>	YES							
<b>Product Manual</b>	YES							
<b>Note :</b>	1) Standard warranty : 12 months 2) Cable of other lengths shall be available as per requirement. 3) Handles and wheels are not considered in mentioned size. 4) Size and weight may increase for optional features, as well as custom built features. 5) Picture are for illustration purposes only. 6) Specification can be changed without any notice.							

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