

SA 10i Leakage Current Meter For Surge Arresters



Design your maintenance strategy to achieve optimum Surge Arrestor (LA) performance with... ...SA 10i

The Product

SA 10i: Leakage Current Meter For Surge Arresters

SA 10i the Leakage Current Meter from SCOPE is a State of the Art, hand held, on-line test system for Residual Life Assessment of Surge Arresters. The instrument measures and directly displays the values of resistive and total leakage current.

The SA 10i can be pre-loaded with the LA identity (LA Identification, Type, Serial Number, Location, Rated Voltage etc.) and tests conducted on the same ID of the Arresters are saved under its own library created. Trend analysis software; SAData picks up this data and files them in a similar fashion on a PC. This analysis software enables the user to take a decision to repair/replace the arresters considering safety limits.

SA 10i is designed to work under the hostile electrostatic noise found in live HV switchyards



The Measurement

SA10i measures resistive leakage current as per IEC standard 60099 – 5 – B1. According to IEC 60099 – 5 – B1. Harmonics are generated in the leakage current in LA because of the non-linear voltage current characteristics of the arresters. Out of harmonics 3rd harmonics content depends on the magnitude of the resistive current flowing through LA.

SA10i reads the leakage current flowing through the earth conductor of arrester and calculates third order harmonics current from it. This current is shown as resistive current.

A specially designed clamp on CT is used to read total leakage current flowing through the earth conductor of LA. Also as System voltage and ambient temperature keeps on varying; SA 10i applies correction factors for system voltage correction and also temperature correction to get corrected resistive leakage current.



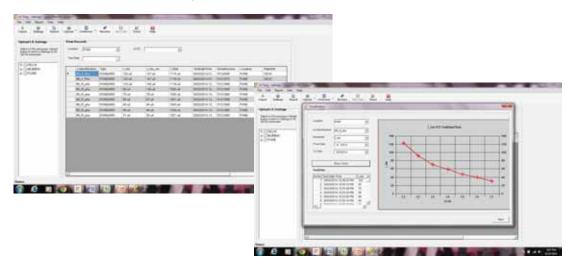




Special Features

- This hand held design makes SA10i Simple, lightweight, portable, feature-rich, affordable.
- Measures 3rd harmonic resistive current, and the total leakage current
- In built temperature measurement facility enables calculation of temperature compensated leakage currents
- Correction of results to rated voltage of LA to eliminate effect of change in system voltage.
- Date and time stamp on test results
- Results are displayed on LCD and can be stored in the in-built memory of the instrument. 1000 test records can be stored
- The SA 10i is powered by easily available re-chargeable Lithium-ion batteries. It works for a day's testing needs on a single charge
- The SA 10i is a switchyard compatible instrument. This makes the instrument extremely convenient to use.
- USB communication port to transfer data to PC and Windows based PC Downloading & AnalysisSoftware.
- Data Management, Analysis and Trending through SAData software

SAData : PC Downloading& Analysis software



SAData is windows based software that enables creating folders of LA Identity details on PC and uploading the same to instrument as well as downloading of test results from instrument to PC. This ensures that library of various LA ID's is generated in software. Once you create & upload the LA ID to instrument, all result taken on that LA will be stored under same ID folder even when they are downloaded to PC. It ensures structured storage of results of even huge nos. of LAs. Instrument can be connected to PC in plug-n-play mode through USB port saving time.

Trend Analysis for trending of historical data of a specific LA over specified period can be done to predict the healthiness of a LA. The report generation for the tests taken is also possible. This report can be exported to various formats like PDF, Excel, Word, HTML, etc. and also can be printed. You can add operator name and any additional notes if you want to add.

Benefits

- Online measurement enables effective measurement of leakage current
- Simple tool to assess the residual life of Lightning arrester
- Get early warning of LA failure and cascading effects
- Battery operation enables measurement in absence of AC supply
- Suits equally to utilities, OEM's, Test labs as well as testing and commissioning companies

Specifications

Parameters	SA 10i	
Total leakage current Range	Up to 10mA	
Resistive leakage current Range	Up to 10mA	
Resolution	1μΑ	
Inputs	External Clamp-on CT	
Display	2 line x 16 character backlit LCD	
Compensation	Automatic for Noise & Temperature	
Temperature sensor	Inbuilt silicon thermometer	
PC Connectivity	Yes	
Memory	for storage of 1000 results	
Power supply	7.4V / 1150mAh, Internal rechargeable battery	
Battery charging	100-270V AC, 50 / 60Hz ± 10%, 1 Phase	
Dimension	190 x 129 x 50mm	
Instrument Weight	1.5 kg	

Accessories

Standard		
Description	Quantity	
Low noise, Clamp-on CT	1 Set	
Test Lead Set carrying CT cable, Charger and Master Earthing cable	1 Set	
SAData - Data management and analysis Software CD	1 No.	
Instruction Manual	1 No.	
Elegant Carrying Case	1 No.	
Optional		
Large size low noise clamp on CT	1 No.	





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