

## 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 folder. A 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.

### SPECIAL FEATURES

- ❑ Simple, lightweight, handheld, feature-rich, affordable
- ❑ Measures 3<sup>rd</sup> harmonic resistive current with compensation and the total leakage current
- ❑ In built temperature measurement facility enables calculation of temperature compensated leakage currents
- ❑ Date and time stamp on test data
- ❑ Results are displayed on LCD and can be stored in the in-built memory of the instrument. 1000 test records can be stored
- ❑ SA 10i is powered by 7.4V DC, 1150mAH Li-Ion rechargeable battery. It will work for 12 hrs with backlit on
- ❑ SA 10i is a switchyard compatible instrument. This makes the instrument extremely convenient to use
- ❑ USB port to transfer data to PC having Sadata - Windows® based data management software
- ❑ Data Management, Analysis and Trending through SAdata



### THE MEASUREMENT

SA 10i is a simple, quick-check solution for understanding the healthiness of LAs. This on-line meter directly displays the results.

A special low-noise clamp-on CT is used to read leakage current in the earthing conductor of the Arrester. The SA 10i measures 3<sup>rd</sup> harmonic resistive current and total leakage current as per IEC 60099-5 B1.

For easy comparison of results it provides Corrected Resistive Current after due compensation for System Voltage & Temperature.

### STANDARD ACCESSORIES

- ❑ Specially designed low noise, Clamp-on CT
- ❑ Test Lead Set
- ❑ SAdata Software
- ❑ Instruction Manual
- ❑ Carrying Case

### SPECIFICATIONS

Range	: Total Leakage Current - 0 to 10mA Resistive Leakage Current - 0 to 10mA
Resolution	: 1 $\mu$ A for both Resistive & Total Currents
Accuracy	: $\pm$ 5% for both Currents
Inputs	: External Clamp-on CT
Display	: 2 line X 16 character large backlit LCD
Keyboard	: 5 keys
Measurement	: Total Current, Resistive Current, Corrected Resistive Current
Compensation	: Automatic for Noise, Rated Voltage & Temperature
Temperature	: In-built silicon thermometer for temperature measurement
Power	: 7.4V DC, 1150mAH Li-Ion rechargeable battery
Bat. Charging	: 230 V AC $\pm$ 15%, 50 Hz $\pm$ 10%
Environment	: 0 to 50° C, 95% RH (Non- condensing), Typical HV Switchyard
Dimensions	: 190 X 129 X 50 mm
Weight	: 1.5 Kg, instrument

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