Design your maintenance strategy to achieve optimum Surge Arrestor (LA) performance with SA 30i

SA 30i *LEAKAGE CURRENT ANALYSER FOR SURGE ARRESTERS*

SA 30i the leakage current meter from SCOPE is a State of the Art 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 30i can be pre-loaded with the identity (Asset number, make, year, Serial number 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 30i is designed to work under the hostile electrostatic noise found in live EHV switch yards.

SPECIAL FEATURES

- Simple, lightweight, portable, feature-rich, affordable
- Measures 3rd harmonic resistive current with system harmonic 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, printed on optionally supplied thermal printer and can be stored in the in-built memory of the instrument. 1000 test records can be stored.
- The SA 30i is powered by easily available re-chargeable SLA batteries. It works for a day's testing needs on a single charge.
- The SA 30i is a switchyard compatible instrument. This makes the instrument extremely convenient to use.
- Built-in standard calibration source and self-calibration check facility.
- Serial communication port (USB) to transfer data to PC and Windows based data management software.
- Data Management, Analysis and Trending through SAdata software.

THE MEASUREMENT

A special low-noise clamp-on CT is used to read leakage current in the earthing conductor of the Arrester. The field probe is a non-contact, remote sensing device employed to take the reference signal from the HV line to the Arrester, for measurement of phase and system harmonics.

The SA 30i measures 3rd harmonic resistive and total leakage current by compensating the harmonics present in the system as per IEC 60099-5 B2 or without system harmonic compensation as per IEC 60099-5 B1

STANDARD ACCESSORIES

- Specially designed low noise, clamp-on CT
- Field probe with extendable mounting arrangement organised in a light-weight carrying case
- Test lead set, suitable for testing EHV class SAs
- Thermal paper roll
- SAdata software
- Instruction Manual

SPECIFICATIONS

Range	: Total leakage current 100mA to 10mA Resistive leakage current 1mA to 10mA Field Probe current 10mA to 1mA
Resolution	: 1mA for both resistive & total currents
Accuracy	: ± 5% for both currents
Inputs	: External Clamp-on CT, Field Probe, External PT - optional(110V AC)
Outputs	: Self-calibration output
Display	: 4 line X 20 character large backlit LCD
Keyboard	: 5 keys
Measurement	: Total current, Resistive current
Compensation	: Automatic, for Noise, System Harmonics & Temperature
Temperature	: In-built silicon thermometer for compensation

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