

Surge arrester's leakage current monitoring and insulation analysis SLCM



Detection & Monitoring

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Pioneering the future of power testing and monitoring

Overhead lines leakage current monitoring and insulators analyzer SLCM



Easy fault management

Less than 30 min installation, ultra-long-range wireless communication and the most advanced software integrated.

Surge Arresters faults

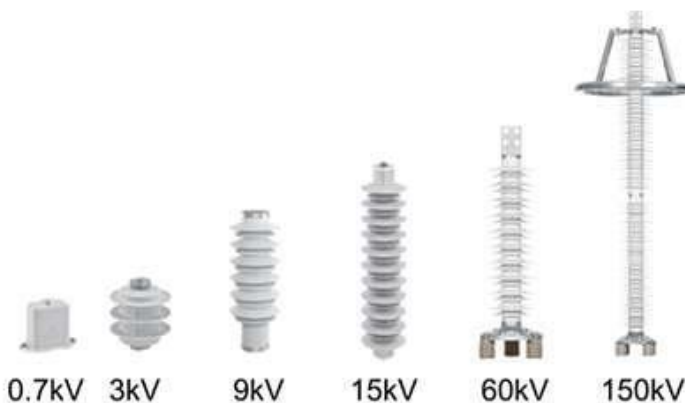
Faults in Surge Arresters occur due to insulation degradation and imperfection, corona, aerosols and moisture. Although the surge arresters are cheap to replace, troubleshooting and finding faults in surge arresters is nearly important as the equipment they are protecting. Most of the surge arresters nowadays have counters which can help in some lifetime calculation, but the real condition of the Surge arrester is the one you have tested. The most common test of surge arrester is leakage current measuring (on the grounding point) with 3rd harmonics analysis. The SLCM does constant monitoring on leakage current and harmonics analysis with wireless communication and most advanced notifications and trending.



Description

The POWER VIEW SLCM is permanently installed on a Surge arrester grounding conductor. Monitors and analyzes real time insulation leakage currents and harmonics under load conditions. This helps in early detection of all insulation problems. Using smart algorithm and additional sensors the interferences are eliminated for correct insulation analysis.

The monitoring system is available in several configurations and versions with IP protection classes starting from IP65. The power supply is Solar on a battery back up supply unit suitable for unattended 5 years operation with no maintenance and battery replacement.



IEC60099-5 compliant

Measures leakage current on the Surge arrester grounding.



Ultra-long wireless communication and low power consumption

Wireless communication at ultra-long-range of several tenths of kilometers



Easy fault management

The Surge arrester's leakage current monitor comes with powerful wireless software which integrates all substation elements. Users can view history and trending and be notified by individual alarms once fault is detected. All the alarms are fully configurable according to Users needs.



Mobile app

The software comes with a powerful Mobile app (Android IOS) for a complete substation analysis, monitoring and inspection.

Technical specification

■ Alarms, notifications and reporting

Fully customizable alarms , email and SMS notification and trending

■ Low ownership Smart substation integration

Easy installation (Clamp on box) takes less than 30 minutes to completely integrate the system

■ Advance Measurement Technology

■ Open circuit protection and nonflammable material CT

■ Aluminum diecast enclosures with more impact resistance then ABS enclosures

■ Neoprene seal to obtain IP-65 Protection class

■ IP-65 protection class enclosures protects from dust, liquid, impact and moisture which are needed for durability on outdoor conditions

■ CAT IV 600V

■ EMI shielded housing

■ Heavy duty outdoor



Technical Specification

Rated Primary Current	IAC5A (50/60Hz)
Monitoring range	2.5mA~5A
Max. Capable Current	5A
Nominal CT Ratio	4500:1
CT Inside Diameter	φ22mm
Applicable Frequency	10Hz~5kHz

Rated Category	CAT IV 600V
Withstanding Voltage	AC2200V/1 minute (between output terminal and CT)
Insulation Resistance	More than 100MΩ by 500V insulation tester (between output terminal and CT)
Operation Temperature	-30~60°C, less than 80%RH w/o condensation
Dimension	57.5×66.3×22mm
Standard	Compliant with RoHS directive
Accuracy	5% full range
Power supply	5V battery DC solar option or 180-260V AC 50Hz



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