

LCM II



**System for Live Condition
Check of your Metal Oxide
Surge Arresters (MOSA)**



**LCM II - A complete system for condition monitoring
of your Metal Oxide Surge Arresters.**

«No interruption of service operation»

LCM II Features

The new LCM II System features the following benefits for handling all your surge arrester monitoring needs:

- **Portable**
- **Arrester ID**
- **Data Management**
- **Cost Effective**
- **Continuous Monitoring**

Portable: Instrument for inspection of surge arresters for condition assessment on a regular basis. New LCM II is battery operated.

Arrester ID: Unique identification of each surge arrester makes Data Management easy. LCM II can store 1000 surge arrester ID's and measurements performed in the field.

Data Management is secured through new Windows© LCM II Software handling all your surge arrester readings. Defines individual surge arrester types including operational parameters. Software includes e.g. possibility to perform evaluation of groups of surge arresters e.g. same type of arresters or alternatively for a region.

Cost effective: Inspection of a surge arrester takes less than 10 minutes on location and can be performed with the arrester in live operation (no disturbance of power distribution).

Continuous Monitoring: LCM II can be used for continuous monitoring of one or more arresters to investigate details in leakage current changes versus time. Can also be used for continuous registration in substations of big importance to the system operation reliability. Available solutions include on-line configurations using modem communication between LCM II instrument and PC software.

LCM II – The Technique

Well-proven and acknowledged monitoring technique using third-order harmonic analysis with compensation.

Rated according IEC 60099-5 as the best field monitoring technique for Metal Oxide Surge Arresters (MOSA).

LCM II records operating voltage and temperature during field measurements.

The LCM II measurements are automatically normalized to standard ambient temperature (+20°C) and 0.7x rated arrester voltage based on recorded temperature and operating voltage during field measurement. Measurements performed under different conditions can thereby easily be compared.

Performing Field Measurements

LCM can only be used for arresters on insulated base and with a separate earth lead.

Arrester ID is downloaded from PC software to LCM II instrument prior to performing inspection of surge arresters. LCM II can store 1000 arrester ID's.

On location choose correct arrester ID and perform measurement. LCM II can store 1000 measurements performed in the field.

After completion of field measurements

LCM II

USA

TECHNICAL

Dimension:

Instrument:
WxHxD = 21x13x 30 cm
WxHxD = 8x5x12 in

Weight:

Instrument: 4,9 kg / 10.9 lbs
Field and current probe 1,5 kg / 3.3 lbs
Complete unit: 11 kg / 24.5 lbs

Environmental:

Instrument enclosure IP 54.

Operating temperature:

Operating -10 to +50 °C
14 to 122 °F
Storage -20 to +70 °C
-4 to 158 °F

Mains voltage:

12 – 15 VDC or 110 – 230 VAC 50/60 Hz
Battery: 9.6V 2,4 Ah
Capacity: 8 hours use
Charging: 1.5 h.

stored data are transferred from LCM II instrument to PC software. You are now ready to perform analysis and plan your next inspection.

APPLICATION

The LCM has been used since 1989 to determine short term as well as long-term measurements on arresters from 66kV to 765kV networks, and is today delivered to power companies and utilities in about 50 different countries.

General overview of LCM II condition monitoring system.

