

# MLCM

## Motwane's Leakage Current Monitoring



## Features

- Simultaneous display of fundamental & 3rd harmonic leakage current
- Highly immune to noise in the system
- Auto correction values @ 20 Deg C
- Mobile App for data transfer & trending
- Ingress Protection IP54
- Battery operated
- 4 hours of battery backup with easily replaceable battery
- Compact & lightest in the world

## Description

The MLCM is light weight, cost effective, portable and handy to monitor the healthiness of Lightning Arrester. It measures the fundamental and third harmonic leakage current down to micro ampere. MLCM makes it easy for maintenance crew to check and monitor in-service Lightning arresters in a periodic manner and ascertain their healthiness. When LA's deteriorate, the third harmonic leakage current also increases which provides a clear indication for maintenance crew to take immediate action. As per IEC60099-5 B1 method, third harmonic @ 20 degree is resistive and directly co-relate to healthiness of LA. The MLCM is also provided with android app to enable the user to get the report in mobile without the need of kit or laptop to see and analyse data.

## Application

Lightning arresters protect your valuable assets from transients and lightning strikes. Even though they are not very costly device, their maintenance is very critical of the view that they protect your costly assets. It is a necessity that these LA's are periodically monitored to ensure all the costly assets are protected always. There are many methods as per IEC 60099-5 to monitor the LA's. Out of which, it is very simple and easier to monitor the in-service Lightning arrester without dismantling it by measuring the 3rd harmonic leakage current. Can combined with multiplexer system for continuous monitoring of a number of surge arresters in a substation



## Technical Specification:

### Measurement

|  |                        |
|--|------------------------|
| Total Current                              | : 1 $\mu$ A – 30mA     |
| Resolution                                 | : 1 $\mu$ A            |
| Accuracy                                   | : $\pm$ 5% +5 Count    |
| 3 <sup>rd</sup> Harmonic Resistive current | : 1 $\mu$ A – 30mA     |
| Resolution                                 | : 1 $\mu$ A            |
| Accuracy                                   | : $\pm$ 5% +5 Count    |
| Method                                     | : B1 as per IEC60099-5 |

|              |  |
|--------------|--|
| Display      | : LCD                                      |
| PC Interface | : USB/ Bluetooth from Mobile               |
| App          | : Android app for data transfer / trending |
| Compliance   | : EMI / EMC as per relevant IEC Standards  |
| Power Supply | : Rechargeable Li-Ion 9V Battery           |
| IP Rating    | : IP54                                     |

### Environment

|                       |                           |
|-----------------------|---------------------------|
| Operating Temperature | : -10°C to 50°C           |
| Storage Temperature   | : -20°C to 70°C           |
| Humidity              | : Max. 90% Non condensing |

|           |                |
|-----------|----------------|
| Dimension | : 95x175x40 mm |
| Weight    | : 1.5 Kg       |

### Standard Accessories

- MLCM Unit
- Test lead with clamp
- Mobile (Android) with charger
- Battery Charger - 9V
- Cable for data transfer
- Spare Battery - 9V
- Instruction Manual

| Ordering Information             | Part No   |
|----------------------------------|-----------|
| Leakage Current Monitoring: MLCM | 109310004 |



Note : Specification & design subject to change without prior notice.



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