

# Transformer's leakage current monitoring TLCM



## Detection & Monitoring

[www.powerview-energy.com](http://www.powerview-energy.com)



 **PowerView**  
Testing & Monitoring Equipment  
*Pioneering the future of power testing and monitoring*

# Transformer's leakage current monitoring TLCM



## Early fault detection and notification

Measures leakage current on the grounding terminal.



## Easy fault management

Less than 1 hour installation, ultra-long-range wireless communication and the most advanced software integrated.



## Transformer faults

Transformer faults are among the most destructive ones in the power networks. The reason for transformer faults can be many, but most common are bushing insulation damage and winding insulation damage.

Transformer's fault causes blackouts which sometimes results with penalties, production losses and additional network problems. Additionally, transformers faults are mostly very destructive that can cause explosions, fires, permanent damage to equipment, high repair costs.



## Description

The POWER VIEW TLCM is permanently installed on the transformer grounding terminal. Monitors real time insulation leakage currents on the grounding terminal. This helps in early detection of all transformer's insulation problems. Using smart algorithm and additional sensors integrated- the interferences and outdoor discrepancies are eliminated and the sensors measure true insulation leakage current.

The monitoring system is available in several configurations starting from 1 phase version, 3 phase version, 6 phase version . All versions are available in various IP protection classes starting from indoor to outdoor IP65 installation. The power supply is 5V DC and it can be either network, solar or battery supply unit. The power consumption is less than 1mA!



## Mobile app

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



## Ultra-long wireless communication and low power consumption

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



## Installation

The installation is as simple as putting one current clamp over each cable sheath and scanning a QR code. The connection is only needed on one side of the cable end . This wirelessly connects the monitoring device to advanced cloud maintenance SCADA system which offers various alarm notification options. It generally takes less than 5 minutes to configure and connect the monitoring device .

The system comes with 8 preset alarms according the International organization for digital substation Development such as Daily, weekly, monthly ROC limit and Absolute value. All alarms are editable by the user.



## Easy fault management

The Power cables 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 Users needs.

# Technical characteristics

■ **Alarms, notifications and reporting**

Fully customizable alarms , email and SMS notification and trending

■ **Low ownership Smart substation integration**

Easy installation ( takes less than 1 hour to completely integrate the system for 3 phase cable

■ **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 your PCB from dust, liquid, impact and moisture which are needed for durability on outdoor conditions

■ **EMI shielded housing**

■ **Heavy duty outdoor**

<b>Rated Primary Current</b>	<b>AC100A (50/60Hz)</b>
<b>Applicable Current</b>	100mA~100A
<b>Max. Capable Current</b>	100A
<b>Nominal CT Ratio</b>	4500:1
<b>CT Inside Diameter</b>	φ22mm
<b>Applicable Frequency</b>	10Hz~5kHz
<b>Output Example</b>	AC19.1mV ± 5% (200mA/430Ω )
<b>Output Part</b>	Lead Wire : Approx. 4000mm ( with Y Terminal: V1.25-B3A)

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