

# TEMPERATURE & PARTIAL DISCHARGE MONITORING SYSTEM

Early warning of switchgear faults with temperature and partial discharge monitoring



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# SCM-TP1000 SERIES

SCM-TP1000 Intelligent PD and temperature monitoring for MV/HV equipment. Advanced AA, TEV and UHF technologies, combined with strap-type wireless temperature sensors, enable early warning, risk reduction, and optimized maintenance.

- Advanced multi-technology PD detection;
- Switchgear Temp./Humid./Noise monitoring;
- High-accuracy sensing and data acquisition;
- SOE logs and waveform-based fault tracing;
- Wireless + wired communication options;



	Parameter	Value
HMI	Power supply	85-265Vac/dc
	Digital output	2*DO for alarm & trip
	Dimensions	144×144×100mm
	Communication	RS485/ Modbus-RTU
Temp. sensor	Power supply	1200mAh battery powered
	Measurement range	-40-125°C, ±1°C
	Transmission frequency	433MHz
	Sampling period	5 minutes
PD sensor	Detection method	AA/ TEV/ UHF three-in-one
	Measurement range	AA:0~60dBμV; TEV:0~60dBmV; UHF:-70~10dBm



## Integrated Display Device

- Real-time parameter visualization;
- Historical waveforms for fault analysis;
- Color LCD screen with intuitive graphical interface;
- Configurable alarm thresholds with on-screen warnings;
- Two DO outputs and RS485 Modbus RTU communication;



## Temperature Monitoring

- Wireless design easy to install without any cabling;
- Long battery life, powered by 1200 mAh battery;
- Wide measurement range from -40 °C to 125 °C;
- Reliable data transmission on 433 MHz frequency;



## Partial Discharge Monitoring

- Triple-tech PD detection: AA, TEV, UHF;
- Built-in ambient temp, humidity, noise measurement;
- Detects surface, internal, and corona discharges;
- Non-intrusive installation on live conductors;