

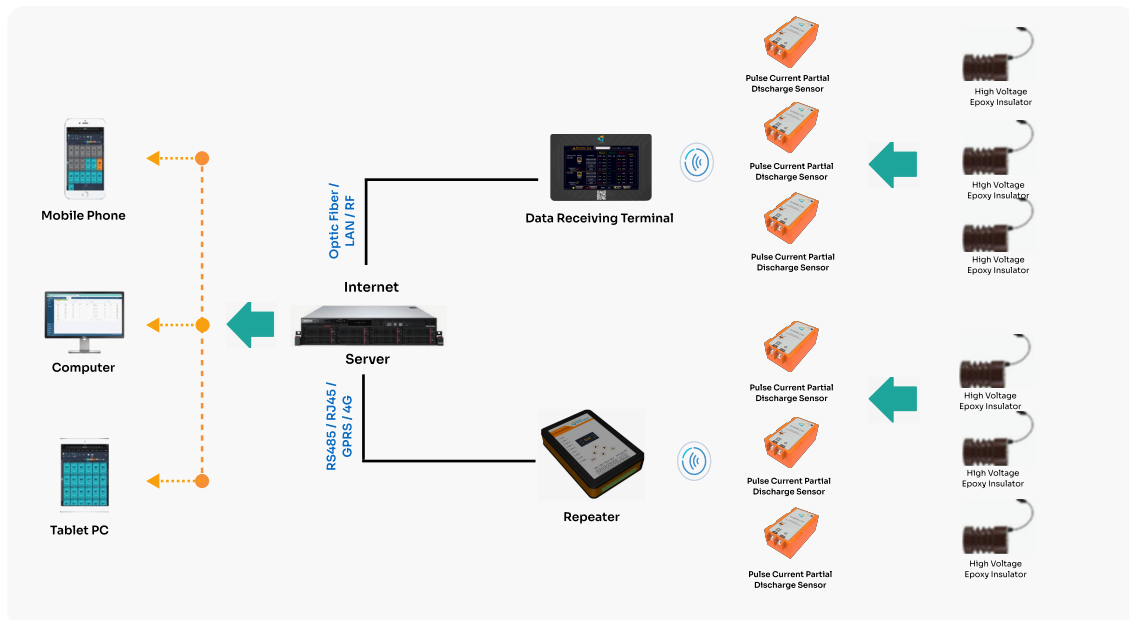
# PTSPD119 Pulsed Current Local Discharge Sensor

## Product Overview

The PTSenR™ PTSPD119 Pulsed Current Local Discharge Sensor utilizes the pulse current method, a widely recognized and adopted technique in the shielded PD laboratory for partial discharge (PD) testing. This method measures apparent discharge in pC units, providing a quantitative assessment that accurately reflects the PD status of electrical equipment.

Despite the challenges posed by electromagnetic interference in operational environments, this sensor has significantly improved the application of this method in running high-voltage Switchgear equipment. By integrating advanced noise elimination and anti-interference technologies through both software and hardware innovations, we ensure that our products meet the high-performance standards required by today's industrial customers.

## System Architecture



## Applications

Medium Voltage Switchgear Monitoring



Ring main Unit



Remote Monitoring



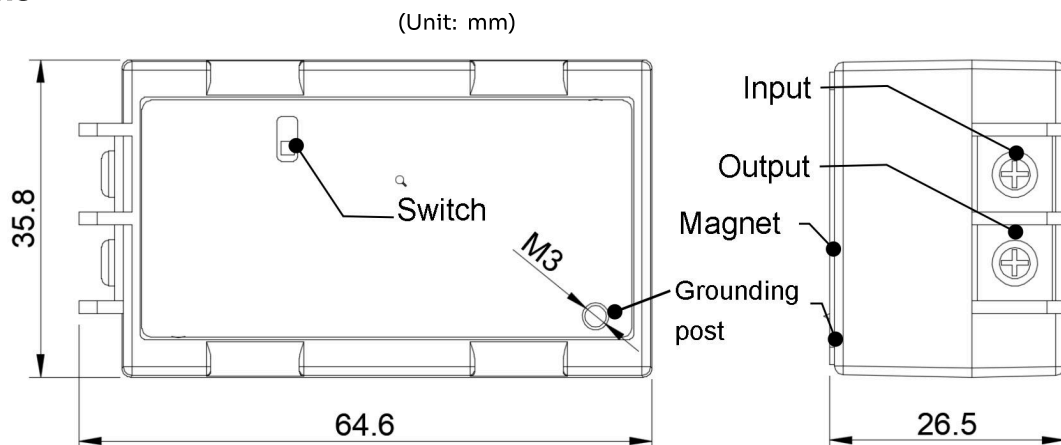
## Characteristics

The PTSenR™ PTSPD119 sensor advanced monitoring equipment offers several distinct features. It is capable of detecting minute changes in PD levels, ensuring accurate and reliable data through sensitive monitoring. The design allows for straightforward setup without the need for complex procedures or additional tools, making it easy to install. Wireless communication facilitates real-time monitoring and data transmission, enhancing operational efficiency without the need for extensive wiring. Additionally, the equipment operates without requiring an external power supply, simplifying deployment and maintenance as it is self-powered.

This equipment is designed to function in a wide range of environments, from extremely low to high temperatures with high humidity, and utilizes a self-catering power supply method. It measures PD with high accuracy using the pulse-current method. Data transmission occurs adaptively, ensuring efficient operation. The equipment also features a robust protection class and flame retardant properties, making it suitable for demanding industrial applications..



## Dimensions



## Specifications

Working Environment	-30°C ~ 85°C , ≤95% RH	Installation	Magnetically
Power Supply Method	Energy Harvesting	Compliance	EN 62479; EN 61326; EN 220, 300, 301, 400, 489
Measurement Range	0 ~ 5000 pC	<b>Ordering Information</b>	
Measurement Accuracy	±20%	Part Number	Product Description
Measurement Method	Pulsed Current Method	PTSPD119	PTSenR™ Pulsed Current Local Discharge Sensor
Outgoing Package Interval	3 ~ 10 minutes, Adapting According to Capacitance		
Wireless Operating Bandwidth	433.92 MHz or can be customized to 2.4 GHz		
Firing Power	10 dBm		
Transmission Distance	≤800 meters (Open)		
Protection Level	IP 6X		
Flammability Rating	V 0		