

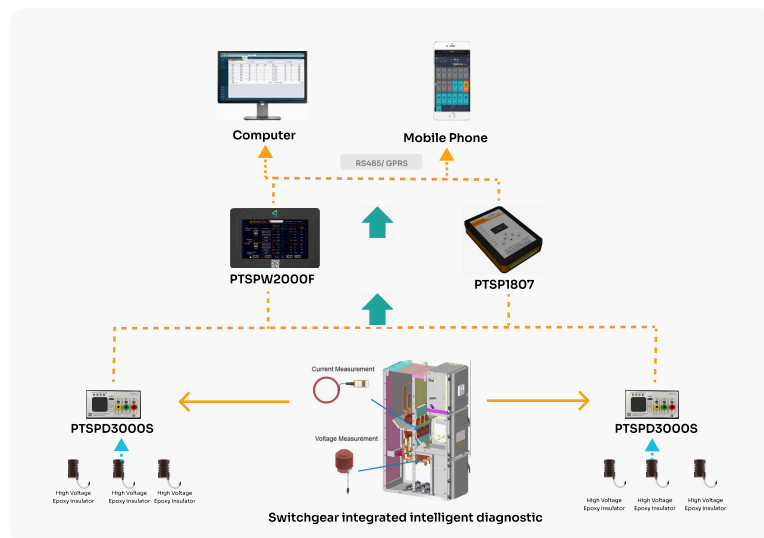
PTSPD3000S Advanced Partial Discharge Analyzer

Product Overview

The PTSenR™ PTSPD3000S Advanced PD Analyzer is a portable, multi-phase partial discharge (PD) detection system that empowers maintenance professionals to safeguard the health of high-voltage Switchgear. By utilizing the pulsed current method, it delivers sensitive and accurate PD detection, even in challenging operational environments. Its simultaneous, independent 3-phase monitoring, coupled with detailed PD mapping, allows for precise localization of potential insulation issues.

Integrated features like 3-phase energization and ground fault indication, along with compatibility with node temperature sensors, offer a comprehensive assessment of Switchgear health. With its portable and user-friendly design, the PD analyzer provides a proactive solution for early detection of insulation degradation, enhancing equipment reliability and preventing costly failures.

System Architecture



Applications

Air/Gas Insulated Switchgear



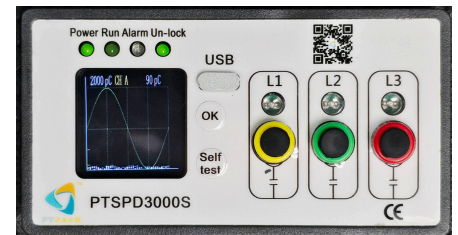
Ring Main Unit



Characteristics

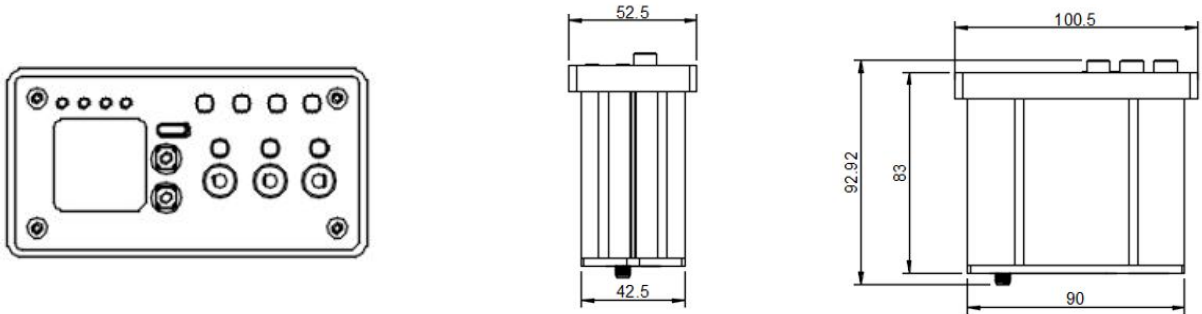
The PTSenR™ PTSPD3000S sets a new standard for partial discharge detection in operational high-voltage Switchgear. Compliant with the IEC standard, it delivers precise measurement of apparent discharge in picocoulombs (pC), offering an objective evaluation of insulation assessment. A key differentiator is its advanced noise elimination technology, specifically engineered to overcome the electromagnetic interference present in operating environments.

This ensures accurate and reliable results when assessing energized Switchgear on-site, a significant advantage over traditional offline testing methods. The detector's wide applicability across various types of high-voltage Switchgear equipment, combined with the proven reliability of the pulsed current method, makes it an invaluable tool for proactive maintenance and ensuring the longevity of critical electrical assets.



Dimensions

(Unit: mm)



Specifications

Working Environment	-40℃~70℃, ≤95%RH
Altitude	< 4000 meters
Power Supply	100~240V AC/DC 50/60Hz
Measurement Range	0 ~ 2000pC
Measurement Accuracy	±20%
Measurement Method	Pulse current method
Wireless Operating Bandwidth	433.92 MHz
Transmission Power	10 dBm
Transmission Distance	≤ 800 meters (Open)
Wired Communication	RS485 (MODBUS), USB (Type-C)
Matched Coupling Capacitance	6.8PF ~ 150PF
Applicable Voltage Level	6 KV, 10 KV, 35 KV, 66 KV
Miscellaneous	
Live Indicator	LED
Display	LCD
Relay Contacts	5A/250V AC 5A/30V DC

Power Consumption	< 3 W
Protection Level	IP 3X
Installation Method	Front Panel Installation, Embedded Requires Hole Opening
Hole Size	92 mm * 44 mm
Operating Conditions	-40℃ ~ 70℃ , ≤95% RH
Outgoing Transmission Interval	2 minutes
Compliance	EN 62479; EN 61326; EN 220, 300, 301, 400, 489
Ordering Information	
Part Number	Product Description
PTSPD3000S	PTSenR™ Advanced Partial Discharge Analyzer