

Sonus PD-X

Handheld Switchgear Partial Discharge
Detector



Advanced Noise Rejection

System detects PD in higher noise environments, reducing the possibility false positives

Increase Your Accuracy

Perform TEV, ASU, HFCT and UHF inspections with more accuracy than scanning a seam of a cabinet by having direct access into the cabinet interior.

Quickly & Easily Identify Faults

The Sonus PD-X has 4 operational ranges with a live Level Screen, and two scatter plots screens displaying a PRPD Live and a PRPD Persist view which instantly show the technician the presence of a fault condition.

The Sonus PD-X is specifically designed for Partial Discharge (PD) and Airborne Emission (AE) detection on Medium and High Voltage Switchgear. The unit detects Transient Earth Voltage (TEV) signals generated by internal partial discharge as well as ultrasound acoustic discharge generated by PD phenomenon. PD detection can be utilized to detect early warning signs of equipment insulation failure. Inspections can be performed quickly and safely by maintenance personnel with minimal training. Fast and accurate diagnosis of problems using the Sonus PD-X will help you prevent unexpected outages. Utilizing the Sonus PD-X with a Sonus UHF-P sensor or the Sonus HFCT-P sensor will allow the inspector to detect PD in broader range of applications and equipment. The Sonus PD-X is compatible with all IRISS CAP Series PD and PDS Inspection windows and VPDS Inspection ports. Allowing the Sonus PD-X to safely scan a singular repeatable test point from the outside of the cabinet and not lose any of the signal due to diffraction.



Specifications

Model	Sonus PD-X
General Specifications	
Overall Dimensions	190 x 90 x 55 mm (7.48 x 3.54 x 2.17 in)
Weight	210 g (0.66 lb)
Environment Rating	IP54
Enclosure	Injection moulded plastic case
Display	OLED with level LEDs, dB, PRPD, Noise
Connectors and interfaces	Power, Headphones and optional sensors
Control	Membrane keypad
Operating Temperature	0°C (32°F) to 60°C (140°F)
Humidity	0 - 95% RH non-condensing
TEV Specifications	
Measurement Range	0 to 80dBmV
Measurement Bandwidth	3 to 200MHz (with FM Bandstop)
Resolution	1dB (Accuracy ±1dB)
Noise Rejection	Yes, with PRPD
Ultrasonic Specifications	
Measurement Range	-6dBμV to + 68dBμV
Resolution	1 dB (Accuracy ±1 dB)
Transducer Sensitivity	-65dB (0dB = 1volt/μbar RMS SPL)
Transducer Centre Frequency	40 kHz
HFCT Specifications	
Measurement Range	0 to 50,000pC
Measurement Bandwidth	100kHz to 70MHz
Resolution	5pC (Accuracy ±5pC)
UHF Specifications	
Measurement Range	0dB-75dB
Resolution	1dB (Accuracy ±1dB)
Bandwidth	200MHz – 2.0GHz
Power	
Internal Battery	Lithium Ion, 3.75V, 2.2Ah, 8.25Wh
Operating Time	8 hours
Battery Charger	
Rated Voltage	100 to 250 VAC, 5V, 3A
Frequency	47 to 63Hz
Country Adapters	UK, EU, Australia, USA
Charge Time	3 hours
Certification	
Compliance	CE-compliant in accordance with EMC Directive (2014/30/EU)
Other	
Warranty	12 Month Limited Warranty

Sonus PD Pro Kit Contains
Sonus PD-X Detector
Headphones
Function Tester
Mains Charger
USB Charger
Hard wearing PELI™ case
Optional Accessories
Sonus HFCT-P Sensor
Sonus UHF-P Sensor

Specifications are subject to change without notice. For the most up-to-date specs, go to www.iriss.com

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