

Sonus PD Pro

Online PD Detection of HV Assets with Data Synchronisation



Advanced Noise Rejection

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

Quickly & Easily Identify Faults

The Sonus PD Pro 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.

Sync & Trend Your Data

Sync data locally to your PC with the included software, or sync remotely to the cloud for access across devices

The Sonus PD Pro 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 Pro will help you prevent unexpected outages. Bluetooth connectivity allows the inspector to pair the device to an Android based phone or Tablet, which in turn sends the data to the Cloud Based Software for analysis and reporting. Utilizing the Sonus PD Pro with a Sonus UHF-P sensor or the Sonus HFCT-P clamp will allow the inspector to detect PD in broader range of applications and equipment. The Sonus PD Pro is compatible with all IRISS CAP Series PD and PDS Inspection windows and VPDS Inspection ports. Allowing the Sonus PD Pro 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 Pro
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 molded plastic case
Display	OLED with level LEDs
Connectors	Power, Headphones and optional sensors
Control	Membrane keypad
Operating Temperature	0°C (32°F) to 60°C (140°F)
Humidity	0 to 95% RH non-condensing
TEV Specifications	
Measurement Range	0 to 80 dBmV
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 Center Frequency	40 kHz
HFCT Specifications	
Measurement Range	0 to 50,000pC
Measurement Bandwidth	60kHz 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	5 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

Phone and Web Application	
Communication	Bluetooth
Data Storage	Customer Server
Data Access	Web front end, SAP, Oracle, etc.
Capability	Android
Reporting	Yes
Results	PD Level, Noise Level, PRPD
Sonus PD Pro Kit Contains	
Sonus PD Pro 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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