

Sonus PD

Handheld Switchgear Partial Discharge
Detector



Detect It All

With the ability of the unit to detect either TEV (Transient Earth Voltage) or AE (Airborne Emission), the Sonus PD is ideal for use in facilities with higher voltages.

Cut The Cord

The SONUS PD is unique in PD detection by using a built-in Bluetooth module which allows the SONUS PD to connect with an Android smartphone running the SONUS PD App.

Increase Your Accuracy

Perform ultrasound electrical inspections with more accuracy than scanning a seam of a cabinet by having direct access into the cabinet interior.

The SONUS PD 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 surface tracking, arcing or corona. 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 will help you prevent unexpected outages.



Specifications

Part Number	Sonus PD
General Specifications	
Overall Dimensions	175 x 89 x 46mm (6.89 x 3.50 x 1.81in)
Weight	300g (0.66lb)
IP/ NEMA Environment Rating	IP54 / NEMA 1
Body Material	Injection molded plastic case
Display	OLED display with 6 display LEDs (PD level)
Connectors and interfaces	Power, Headphones and External Acoustic Sensor
Control	Membrane keypad
Operating Temperature	5°C (41°F) to 55°C (131°F)
Humidity	0 to 90% RH non-condensing
TEV Specifications	
Sensor	Capacitive
Measurement Range	0 to 80 dBmV
Resolution and Accuracy	1 dB, +/- 1 dB
Noise Rejection	Yes
Ultrasonic Specifications	
Measurement Range	-6dBμV to + 70dBμV
Resolution and Accuracy	1 dB, +/- 1 dB
Transducer Sensitivity	-65dB (0dB = 1volt/μbar RMS SPL)
Transducer Center Frequency	40 kHz
Power	
Internal Battery	Lithium Ion, 3.75V, 2.2Ah
Operating Time	Approx. 8 hours
Battery Charger	
Rated Voltage	90 to 264 V AC, 5V, 2.6A
Frequency	47 to 63Hz
Country Adapters	UK, EU, Australia, USA
Charge Time	2 hours
Phone and Web Application	
Communication	Bluetooth & Customer Server
Data Access	Web front end
Capability	Android
Reporting	Yes
Results	dB, PRPD, Noise
Certification	
Safety and EMC	CE-compliant in accordance with Low Voltage Directive (2014/35/EU) EMC Directive (2014/30/EU)
Other	
Warranty	12 Month Limited Warranty

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

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