

Sonus PD Alert

Permanent Partial Discharge Monitoring for Switchgear



Avoid Power Outages

Early warning about defects that can lead to failure

Cut Your Costs

Designed for large scale roll out across distributed assets, the monitoring system allows for a decrease in man-hours usually associated with inspection rounds.

Prevent Failures

Implement as part of a Condition Based Maintenance program to monitor assets and receive notifications to inspect for possible faults before failure strikes.

The Sonus PD Alert is an asset mounted device for indicating the presence of partial discharge in high voltage switchgear, ring main units (RMUs) and transformers. Designed for use in small substations, the instrument can activate local and remote alarms in addition to local indication. The Sonus PD Alert is built into a tough case that magnetically mounts to the RMU. Installation is very quick and simple with only a power connection required to get the system operational.

Alarms can be configured to operate either locally with SCADA or remotely using an optional integrated modem. The system incorporates algorithms that distinguish noise from real PD, significantly reducing the likelihood of getting false alarms. The status and PD levels are displayed on a bright OLED display at the front of the unit.



Specifications

Part Number	Sonus PD Alert
General Specifications	
Overall Dimensions	210 x 190 x 65 mm (8.27 x 7.48 x 2.56in)
Weight	670g (0.66lb)
IP/ NEMA Environment Rating	IP54 / NEMA 1 Standard, IP 68 Optional
Body Material	Robust ABS case
Display	OLED display with display level LEDs
Connectors	Power, SCADA, 3x Ultrasonic, TEV
Control	Membrane keypad
Operating Temperature	-20°C (-4°F) to 60°C (140°F)
Humidity	≤90% RH non-condensing
Data Acquisition and Analysis	
Number of Channels	4
Signal Sampling	320k Samples/sec, 10 bit
PD Analysis	Automatic
Reporting	Website or Standalone
TEV Specifications	
Sensor	Capacitive
Measurement Range	0 to 80 dBmV
Resolution and Accuracy	1 dB, +/- 1 dB
Noise Rejection	Yes, with PRPD
Ultrasonic Specifications	
Number of Channels	3
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	
Rated Voltage	100 to 250 VAC
Frequency	47 to 63Hz
Internal Back-up Battery	Lithium Ion, 3.7V, 6.9Ah, 35.5Wh
Back-up Operating Time	8 hours using Default Settings
Certification	
Safety and EMC	CE-compliant in accordance with Low Voltage Directive (2014/35/EU) and 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

North America (HQ)
+1 (941) 907 9128

LATAM
+1 (941) 704-4445

EMEA
+44 (0) 1245-399-713

APAC
+1 (941) 524-3340



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