HVPD Kronos®
Permanent

REMOTELY MONITOR
YOUR COMPLETE HV NETWORK FOR PARTIAL DISCHARGE

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This on-line PD monitoring system is designed for monitoring the insulation condition of complete electrical networks to help avoid unplanned outages and improve reliability.

Available with four, six and 24-channels for connection to the PD sensors on multiple assets.

The monitors are connected to a server where the HVPD Kronos® WebView (a web-based platform) brings the asset condition data from multiple monitors and sites together in a simple user interface. This provides an ability to navigate across all sites and focus on the individual assets in just a few clicks.

Detects PD in the following assets:

- CABLES
- ROTATING MACHINES
- SWITCHGEAR
- VSD MACHINES
- TRANSFORMERS

Compatible PD Sensors:

- BTA
- HFCT
- TEV
- HVCC
- AA
- SMART-TB3

TECHNICAL SPECIFICATION

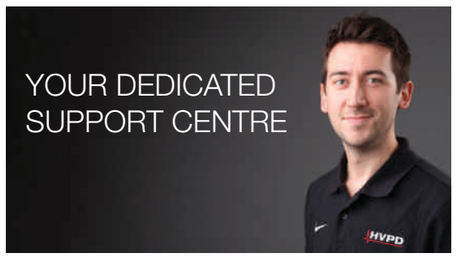
PD Data Capture and Processing System	
Analogue bandwidth	50 MHz
Sample rate	100 MS/s
Sample Memory (one channel)	2MPt
Minimum pulse rise time	10 ns
Frequency Range	100 kHz - 50 MHz
Input Channels	4/6/24
Input connection type	BNC
Input connection internal impedance	50 Ω
Suitable PD sensors	HVCC, HFCT, TEV, AAP, SMART-TB3™, BTA
Data Capture Method	Multiplexed with synchronous acquisition on any 2/4/6x channels (depending on model)
Number of events captured per cycle	500
Trace length in each data capture	20 ms (1 x 50 Hz power cycle)
Maximum number of record stored	2 years data. Records are automatically downloaded to the server
Data capture and processing time (One-channel)	~10 s
Data capture and processing time (All channels)	~60 s
Trigger	Automatic, external or AC line supply
Linearplex™ Airborne Acoustic Module Specifications	
Linearplex™ acoustic bus inputs	2
Linearplex™ sensors per bus	16
Maximum acoustic sensors per HVPD Kronos® main unit / node	32
Detection frequency range	40 kHz
Input connection type	RJ45
Suitable PD sensors	HVPD Linearplex AA sensors
Data capture method	Multiplexed
Acquisition period	Peak hold over 5 seconds
Other Input Channels	
Sensor Type	Temperature & Humidity
Mechanical Specification	
Dimensions (without frame) (W x H x D)	460 x 300 x 200mm
Weight	Main unit: 11 kg
Environmental	
Operating Temperature Range (Indoor Enclosure)	-20°C – +45°C
Operating Temperature Range (Outdoor Enclosure)	-40°C – +55°C
Indoor Enclosure	IP55
Outdoor Enclosure	IP65
Install Type	Wall mounted, distributed devices, 19" rackmountable, with distributed node devices, supplied with the PDMS
Software	
Signal Processing/Noise reduction	Pulses are separated automatically by the knowledge-based, pulse wave shape analysis software into the following four categories: Cable PD, Remote plant/ machine PD, Local/switchgear PD, Noise. Airborne Acoustic PD can be detected via a separate sensor.
Data captured/showed	PD Peak Level, Cumulative PD Activity and PD Count , 2D and 3D PRPD, plots, Chart, tables and trend view
Network single-line diagram (SLD)user interface	Yes
Real-time diagnostic acquisition	Yes
Remote options/connectivity	Remote desktop connection with SLD User Interface, HTML Web interface, Ethernet LAN upload to database
Results compared to PD benchmarking database	Yes
Service contract options	Yes

HVPD Kronos® WebView

Our platform shows the condition of all assets being monitored in a way that is easy to understand and make decisions from - an interactive version of your own network's SLD.

Each asset monitored is colour-coded using a traffic light system, showing its insulation condition. The information shown is powered by HVPD Kronos® Ultimate Software, our PD analysis suite which uses PD signal and event recognition algorithms to give a detailed breakdown of PD activity.

HVPD Kronos® Care



Delivered in conjunction with HVPD Kronos® monitoring technology, our HVPD Kronos® Care Plan provides you with the different levels of comprehensive support to suit your needs.

What we take care of PD data analysis, Software maintnenance plan, HVPD Kronos® monitor on-site service, and Extended Warranty.

Options for integration

Ex/ATEX RATED MONITOR

Monitors available approved for installation in hazardous gas zones. ATEX EEX-D IIB T5 IP66 for zones 1 and 2.

SCADA INTEGRATION

Full network integration into SCADA systems via Modbus. Other protocols are available on request.

NETWORKING

Ethernet and Fibre Optic networking options with remote access capabilities.

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An ISO 9001 : 2015 Company

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