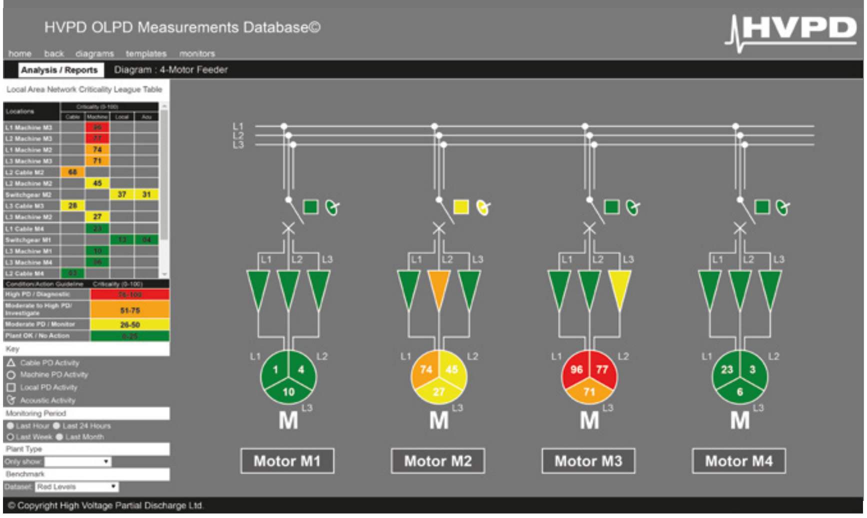


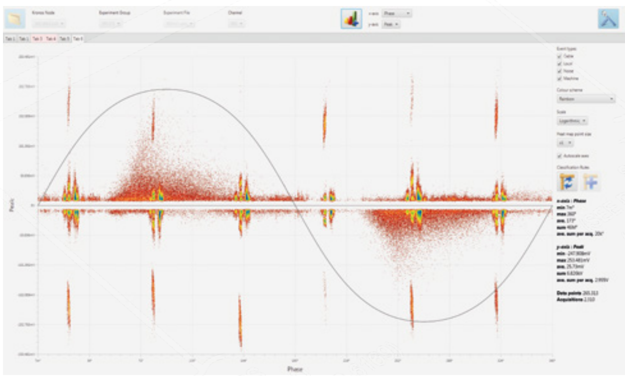
HVPD

HVPD Kronos®

Portable Monitor

3

MONITOR



www.hvpd.co.uk

NEW HVPD Kronos® Portable Monitor

24-channel on-line monitor for short-term monitoring

The **HVPD Kronos® Portable Monitor** is an on-line partial discharge (OLPD) monitoring system for temporary installation. This monitor is designed to be moved around the network for short-term OLPD monitoring sessions of 1 to 3 months. It provides a diagnostic insulation condition assessment of in service plant, including switchgear, cables, transformers and rotating machines of 3.3 kV and above.

It can be used routinely or after a high PD level is detected with the PDS Insight™ or HVPD Longshot™ unit.

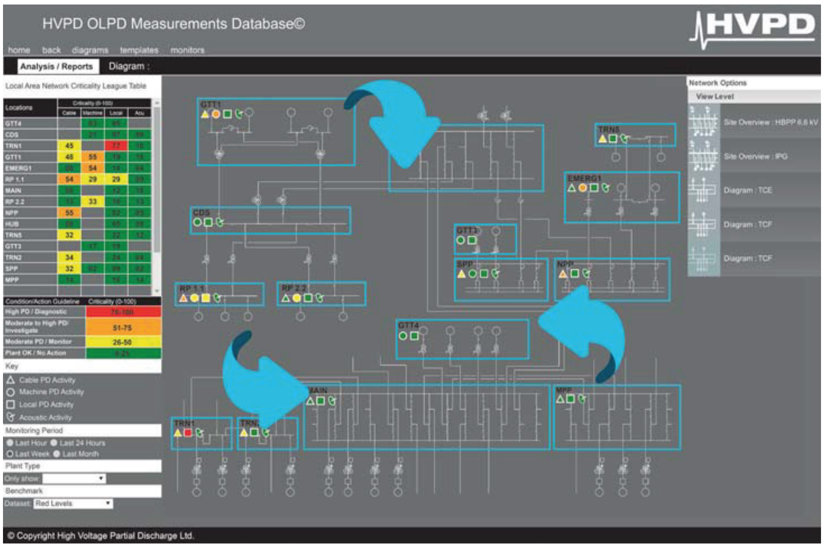
The system trends PD activity over time and detects any load variances and intermittent PD activity. The HVPD Kronos® Portable Monitor system is provided with a range of sensors and accessories according to the monitoring application.

Unique to the market, we provide a dedicated service contract in conjunction with the monitoring technology and **HVPD OLPD Measurements Database©** to provide a comprehensive support to condition-based maintenance (CBM) scheme.

HVPD 4-Phase Asset Management

MONITOR

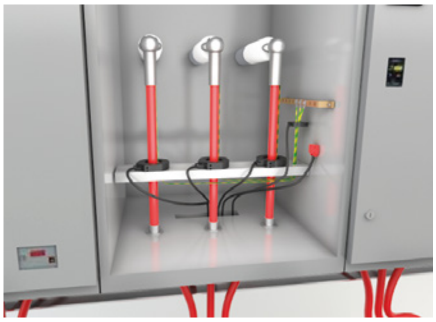
Temporary OLPD Monitoring



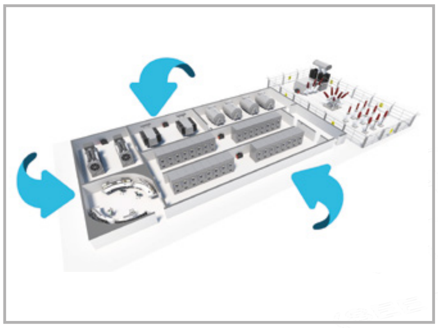
HVPD Kronos® Portable Monitor can be moved around the network

Portable network monitoring solution

1


Permanent or temporary sensor installation

2


Short-term, OLPD monitoring sessions around the network

3


Identification of insulation faults

4

Analysis of the data and asset management recommendations

Features

- Suitable for short-term continuous monitoring of 1 to 3 months.
- It represents Phase 3 of the HVPD 4-Phase Asset Management solution and is used to monitor partial discharge activity.
- Supports condition-based maintenance (CBM) schemes, reducing unplanned outages, downtime and maintenance costs.
- The 24-channel HVPD Kronos® Portable Monitor captures six signal channels synchronously using its unique Smart Multiplexer.
- With 24 sensor inputs, a single HVPD Kronos® Portable Monitor covers up to four HV motors/transformers together with the switchgear and feeder cables.
- Generates a simple OLPD Criticality number for the asset from 0–100% through benchmarking and trending with the central HVPD OLPD Measurements Database©.
- Compatible with our range of on-line partial discharge sensors for all applications.

Benefits

- The HVPD Kronos® Portable Monitor can be moved around the network enabling fast deployment of the system while maintaining the full capacity of a continuous monitoring system.
- Can be used for periodic monitoring of assets at-risk or to carry out short-term evaluations.
- Synchronous data capture on multiple channels enables advanced OLPD identification and noise separation.
- Available with an optional OLPD Monitoring Service Contract including subscription to the HVPD OLPD Measurements Database©, software upgrades, extended warranty, engineering support, data analysis, reporting and asset management assistance.
- A report is issued at the end of the monitoring period with asset management recommendations.
- Comes with a specially designed, rigid carry frame for easier transport around the network.
- Available for purchase or rental.

HVPD Head Office

128 Metroplex Business Park
Broadway, MediaCityUK,
Salford, M50 2UW
United Kingdom

+44 (0)161 877 6142
+44 (0)161 877 6139
info@hvpd.co.uk
www.hvpd.co.uk

HVPD Offshore

Office 2.14, Quayside i4
Ouseburn Building, Albion Row
Newcastle upon Tyne
NE6 1LL
United Kingdom

+44 (0)191 691 1750
+44 (0)161 877 6139
info@hvpd.co.uk
www.hvpd.co.uk/offshore

HVPD Australia

L24 Allendale Square
77 St Georges Terrace
Perth WA 6000
Australia

+61 (0) 8 6141 3279
+61 (0) 8 6141 3101
info@hvpd.co.uk
www.hvpd.co.uk

HVPD USA

Skyline Executive Suites
11757 Katy Freeway
Suite 1300, Houston
Texas, 77079
USA

+1 281 854 2338
info@hvpd-usa.com
www.hvpd-usa.com

HVPD China

Room 819, Sweetland Hotel
No. 171 Chang Chun Road
Dalian 116011
China

+86 18604269606
info@hvpd-china.co.uk
www.hvpd-china.com

Technical Specification

PD Data Capture and Processing System	
Analogue bandwidth	50 MHz
Sample rate	100 MS/s
Sample memory (one channel)	2 MPt
Minimum pulse rise time	10 ns
Frequency Range	100 kHz - 50 MHz
Input Channels	24 (6x synchronous)
Input connection type	BNC
Input connection internal impedance	50 Ω
Suitable PD sensors	HVCC, HFCT, TEV, AAP, SMART TB3™, Tri-Band, Bushing Tap Sensor
Data capture method	Multiplexed with synchronous acquisition on any 6x channels
Number of events captured per cycle	500
Trace length in each data capture	20 ms (1x50 Hz power cycle)
Maximum number of record stored	2 years data
Data capture and processing time (1 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 Linnearplex AA sensors

Data capture method	Multiplexed
Acquisition period	Peak hold over 5 seconds
Data cpture and processing interval (32 channels)	25 Minutes
Other Input Channels	
Sensor Type	Temperature & Humidity
Mechanical Specification	
Dimensions (Width, Height, Depth)	525 x 450 x 290 mm
Weight	21 kg
Operating Environment	
Temperature	-20°C to +45°C
IP Rating	IP52
Software	
PD pulse waveshape event recognition to remove noise	Yes
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, Airborne Acoustic PD, Noise
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 (with service contract)
Real-time diagnostic acquisition	Yes
Remote options/connectivity	Remote desktop connection Ethernet LAN upload to database
Results compared to PD benchmarking database	Yes (with service contract)
Service contract options	Yes

Our Knowledge is Your Power

Certificate Number 9329
ISO 9001, ISO 14001,
OHSAS 18001

THE QUEEN'S AWARDS FOR ENTERPRISE:
2014