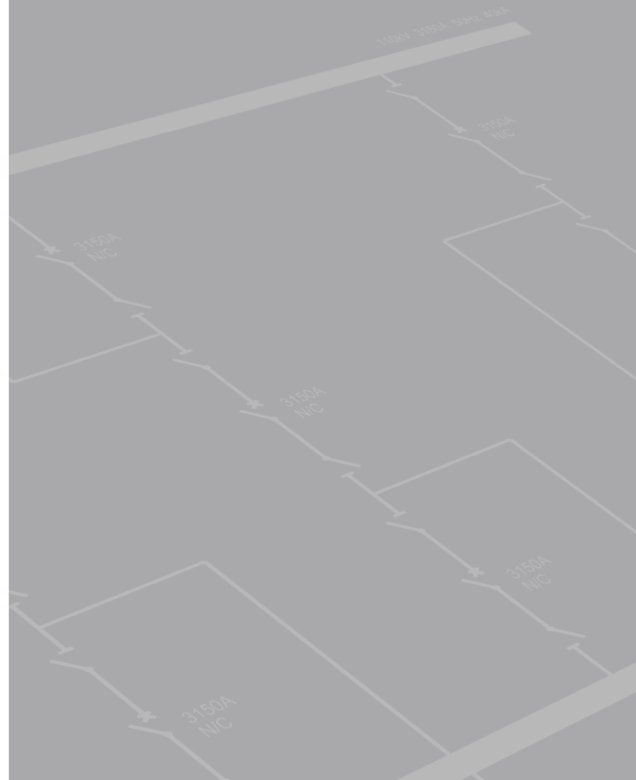




HVPD

HVPD Kronos® Spot Tester

LOCATE



www.hvpd.co.uk

HVPD Kronos® Spot Tester

Detect, Measure and Locate PD in Minutes



HVPD Kronos® Spot Tester

The HVPD Kronos® Spot Tester is a brand new portable diagnostic test unit for detecting partial discharge (PD) in all types of in-service plant, including cables, switchgear, transformers and rotating machines operating at 3.3 kV and above.

The spot tester is a 6-channel, synchronous, battery powered test unit with a rugged and compact design especially optimised for field portability.

Quick and easy to set up, it detects the early stages of insulation deterioration, providing an early warning against Medium Voltage (MV) and High Voltage (HV) insulation faults and supports condition-based maintenance (CBM) schemes, reducing unplanned outages, downtime and maintenance costs.



Application Specific Kits

The unit is available in an array of sets for testing in all types of in-service plant from cables, switchgear, rotating machines and transformers.

Cables			*	**
Switchgear				**
Machines			**	**
Transformers			**	**

*For PD mapping
**Pre-Installed

Compatible Sensors

This versatile unit is available with a range of sensors and accessories for testing multiple applications.

HFCT	SMART-TB3	Bushing Tap
TEV	AA	HVCC

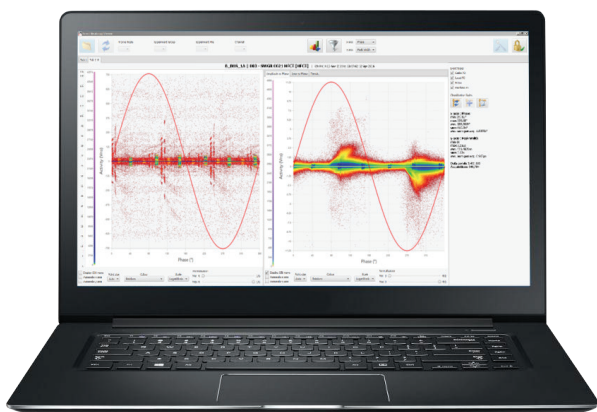


LOCATE

Diagnostic OLPD Spot Testing

Features and Benefits

- Compact, robust and easily transportable system.
- Battery powered: 8+ hours of operation for testing at remote locations without the need for power supply.
- Synchronous data capture on 6 channels enables advanced OLPD identification and noise separation for an accurate PD diagnostic measure in noisy environments and testing more assets at the same time.
- Data acquisition and advanced diagnostic analysis is performed with HVPD Kronos® software.
- Software displays data in real time, providing immediate feedback about the insulation condition.
- Shorter re-visits: HVPD Kronos® software can recall previous setup.
- Available with a wide range of PD sensors for testing multiple applications.
- Compatible with HVPD's new OLPD mapping and the HVPD Portable Transponder System for PD site location on cables.
- Integrated software selectable hardware filters.
- Available with a tailored training course to meet customers' requirements.
- A complimentary reporting service package with data analysis for 25x files in the first year after purchase.
- Trend spot test data over multiple visits.



HVPD Kronos® Software

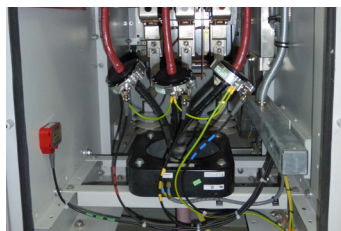
The HVPD Kronos® software is used for data acquisition and analysis through to report generation. Data is acquired and presented in real time whilst statistical pulse wave shape algorithms identify PD and discriminate noise signals allowing the system to accurately identify and locate insulation faults. Various data analysis tools are available including Phase Resolved PD patterns, reports are generated automatically in Microsoft Word format.

The software displayed left shows a phase resolved PD plot before and after de-noising with the HVPD Kronos® software.

Diagnostic Partial Discharge Testing



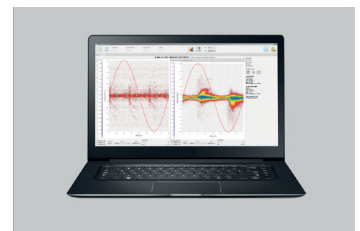
1 Easily transportable diagnostic system for testing multiple applications



2 Permanent or temporary sensor installation



3 Diagnostic partial discharge testing



4 Advanced data analysis and reporting with HVPD Kronos® software

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Technical Specification

PD Data Capture and Processing System	
Analogue bandwidth	50 MHz
Sample memory (one channel)	2 MPt
Minimum pulse rise time	10 ns
Sample rate	100 MS/s
Input channels	6x synchronous
Input connection type	BNC
Input filters (high pass)	50-60 Hz / 100 kHz / 200 kHz
Suitable PD sensors	HVCC, HFCT, TEV, AA, SMART TB3™, Bushing Tap Sensor
Data capture method	Synchronous acquisition on any 6x channels
Number of events captured per cycle	1000
Trace length in each data capture	20 ms (50 Hz power cycle)
Trigger	Automatic, AC line supply, internal mains field detector, external input
Trigger frequency	25 - 500 Hz
Battery life (in use)	8 hours
Battery charge time	< 4 h
Battery life (standby)	1 week
Interface	USB to laptop
Mechanical Specification	
Dimensions (width, height, depth)	235 x 473 x 419 mm
Weight	Main unit: < 10 kg
Environmental	
Operating temperature range	-20°C - +55°C
IP rating (transporting)	IP57
Standard Scope of Supply	
Scope	4x HFCT 100/50, 2x TEV, 6x 10m coaxial cable (RG223), 2m IEC mains cord, 5m earth cable.

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. Colour-based condition criticality rating, 2D and 3D projected events, multiple monitoring experiment configurations, regeneration of trend lines and reclassification of PD retrospectively
Real-time diagnostic acquisition	Yes
Service contract options	Yes
Automatic report	PDF report automatically generated
Laptop Specification (minimum)	
Operating system	64 Bit Windows OS
Memory	16 GB RAM
Screen resolution	1920 x 1080
Hard disk	200 GB

Our Knowledge is Your Power



Certificate Number 9329
ISO 9001, ISO 14001,
OHSAS 18001



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