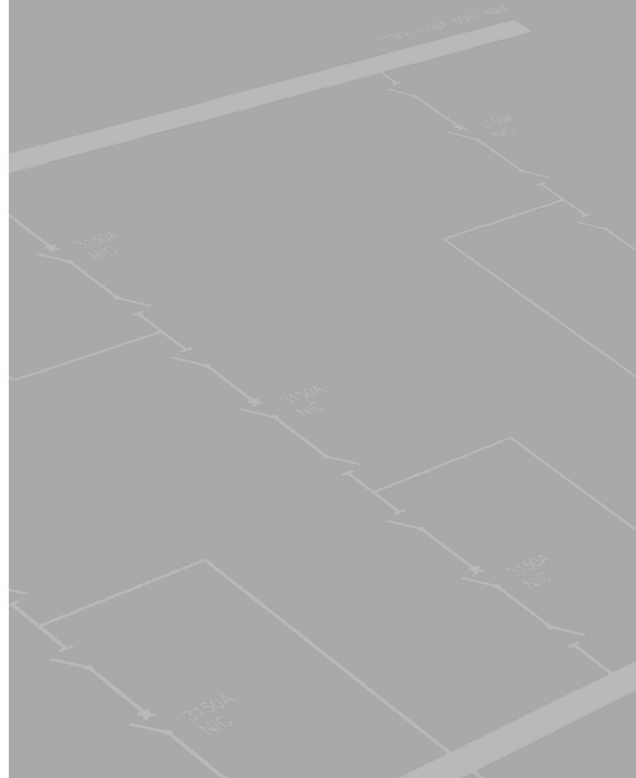


## HVPD Kronos® Spot Tester

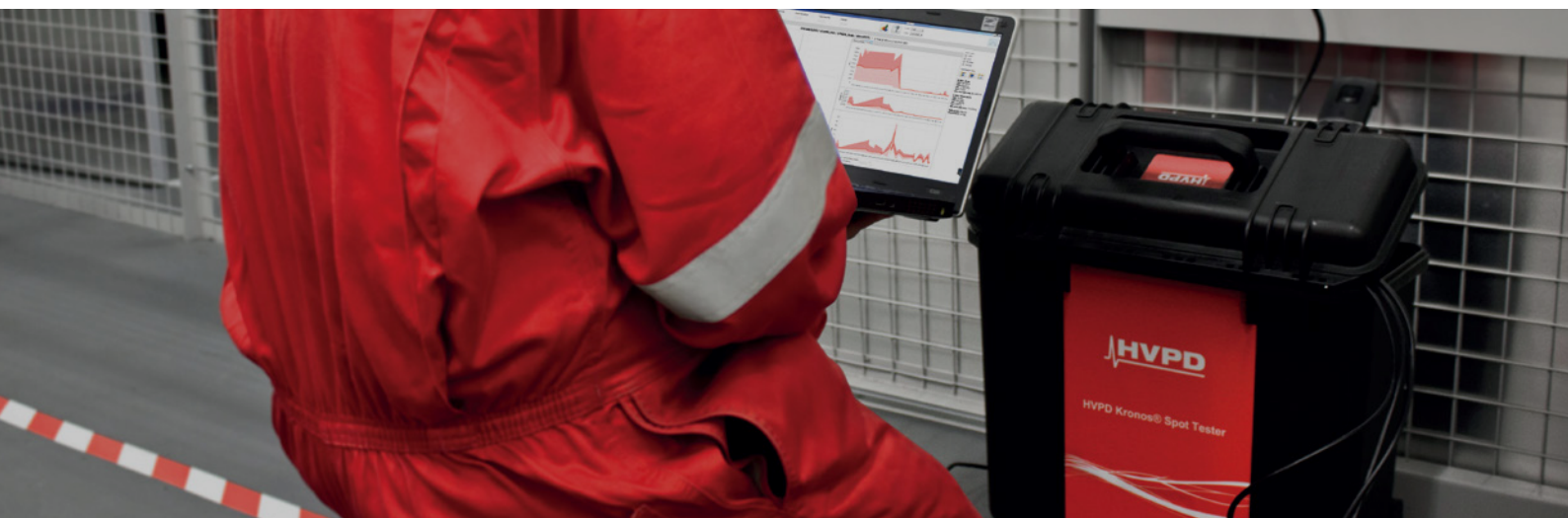
LOCATE



[www.hvpd.co.uk](http://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.

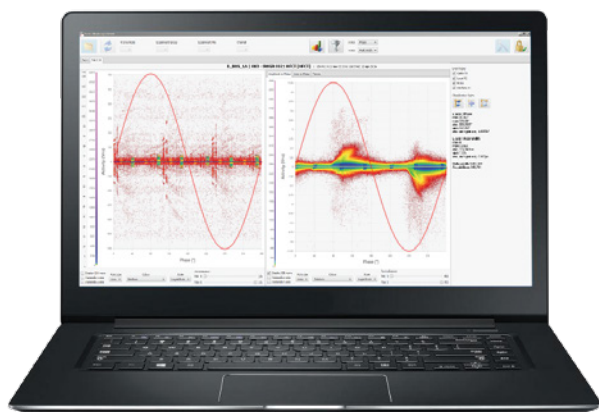
|      |           |             |
|------|-----------|-------------|
| HFCT | SMART-TB3 | Bushing Tap |
| TEV  | AA        | HVCC        |



## 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



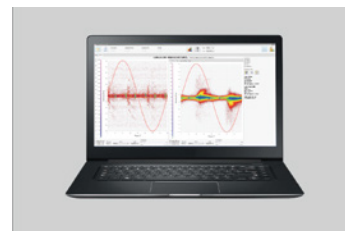
**1** Easily transportable diagnostic system for testing multiple applications



**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 |  | Software   |  |
|---------------------------------------|--|--|--|
| Analogue bandwidth                    | 50 MHz   | PD pulse waveshape event recognition to remove noise                                   | Yes  |
| Sample memory (one channel)           | 2 MPt  | 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  |
| Minimum pulse rise time               | 10 ns  |  |  |
| Sample rate                           | 100 MS/s   | Data captured/showed   | PD peak level, cumulative PD activity and PD Count , 2D and 3D PRPD, plots.<br>Chart, tables and trend view.<br>Colour-based condition criticality rating, 2D and 3D projected events, multiple monitoring experiment configurations, regeneration of trend lines and reclassification of PD retrospectively |
| Input channels                        | 6x synchronous   |  |  |
| Input connection type                 | BNC  | Real-time diagnostic acquisition   | Yes  |
| Input filters (high pass)             | 50-60Hz /100kHz / 200kHz   |  |  |
| Suitable PD sensors                   | HVCC, HFCT, TEV, AA, SMART TB3™, Bushing Tap Sensor                      | Service contract options   | Yes  |
| Data capture method                   | Synchronous acquisition on any 6x channels                               | Automatic report   | PDF report automatically generated   |
| Number of events captured per cycle   | 1000   | <b>Laptop Specification (minimum)</b>  |  |
| Trace length in each data capture     | 20 ms (50 Hz power cycle)  | 64 Bit Windows OS<br>16GB RAM<br>1920 x1080 screen resolution<br>200GB hard disk       |  |
| 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   |  |  |
| Accessories Bag                       |  |  |  |
|                                       |  | 4x HFCT 100/50, 2x TEV, 6x5m coaxial cable (RG223), 2m IEC mains cord, 5m earth cable. |  |

*Our Knowledge is Your Power*

