

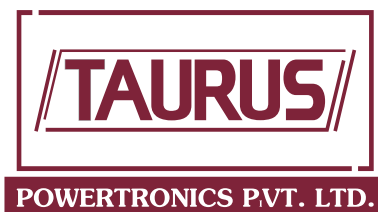
HVPD Kronos[®] Permanent



REMOTELY MONITOR
YOUR COMPLETE HV
NETWORK FOR
PARTIAL DISCHARGE



www.tauruspowertronics.com



HVPD Kronos® Permanent

REMOTELY MONITOR YOUR COMPLETE HV NETWORK FOR PARTIAL DISCHARGE

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.

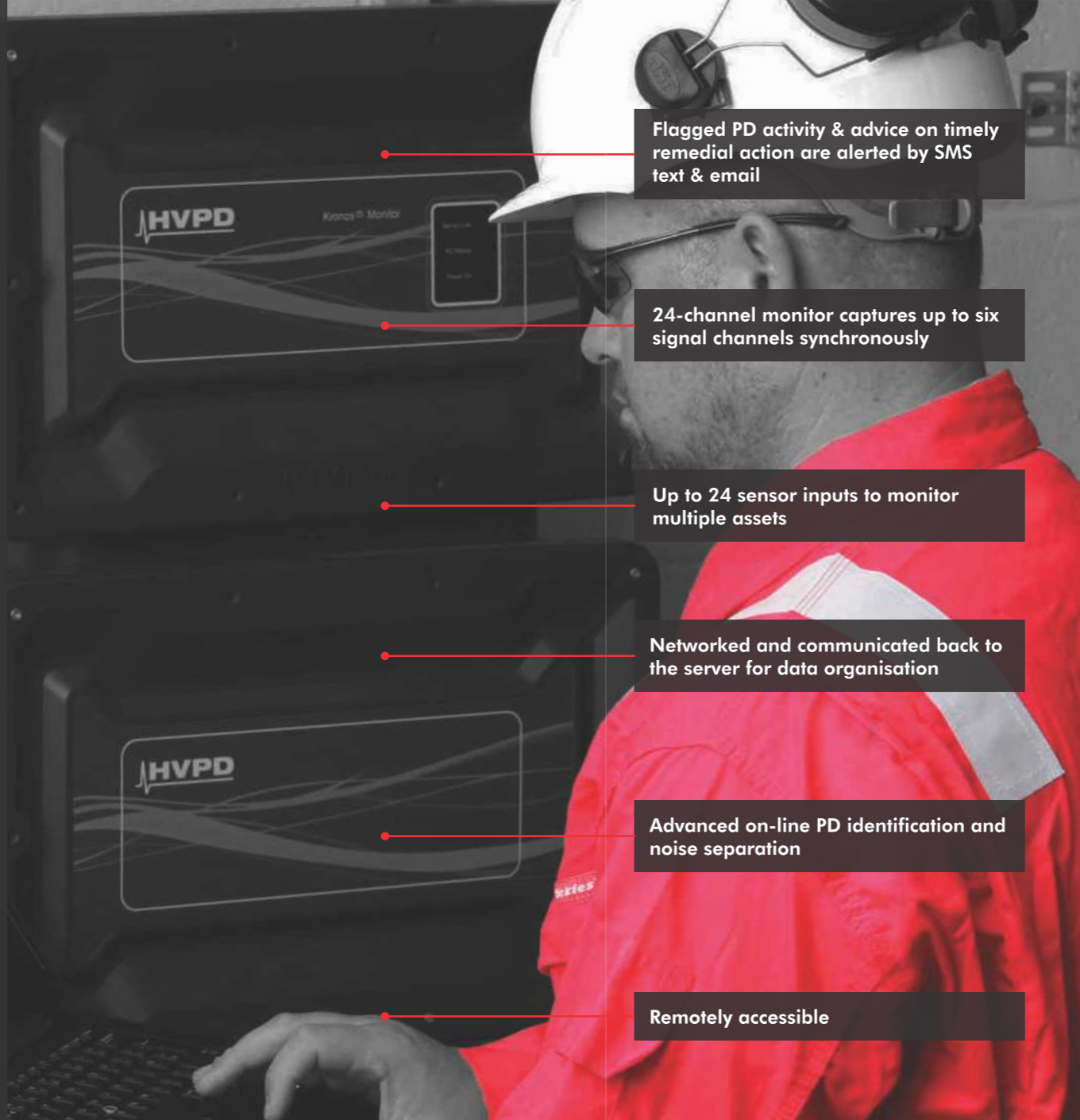
The monitors are connected to a server where the HVPD Kronos® WebView (a web-based platform) brings the asset condition data from multiple monitors and sites together in a simple user interface. This provides an ability to navigate across all sites and focus on the individual assets in just a few clicks.

Detects PD in the following assets:

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

Compatible PD Sensors:

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



Flagged PD activity & advice on timely remedial action are alerted by SMS text & email

24-channel monitor captures up to six signal channels synchronously

Up to 24 sensor inputs to monitor multiple assets

Networked and communicated back to the server for data organisation

Advanced on-line PD identification and noise separation

Remotely accessible

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

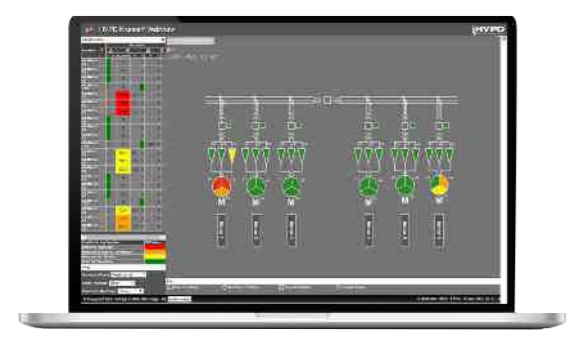
| | |
|---|---------------|
| Operating Temperature Range (Indoor Enclosure) | -20°C □ +45°C |
| Operating Temperature Range (Outdoor Enclosure) | -40°C □ +55°C |
| Indoor Enclosure | IP55 |
| Outdoor Enclosure | IP65 |

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 maintenance 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.



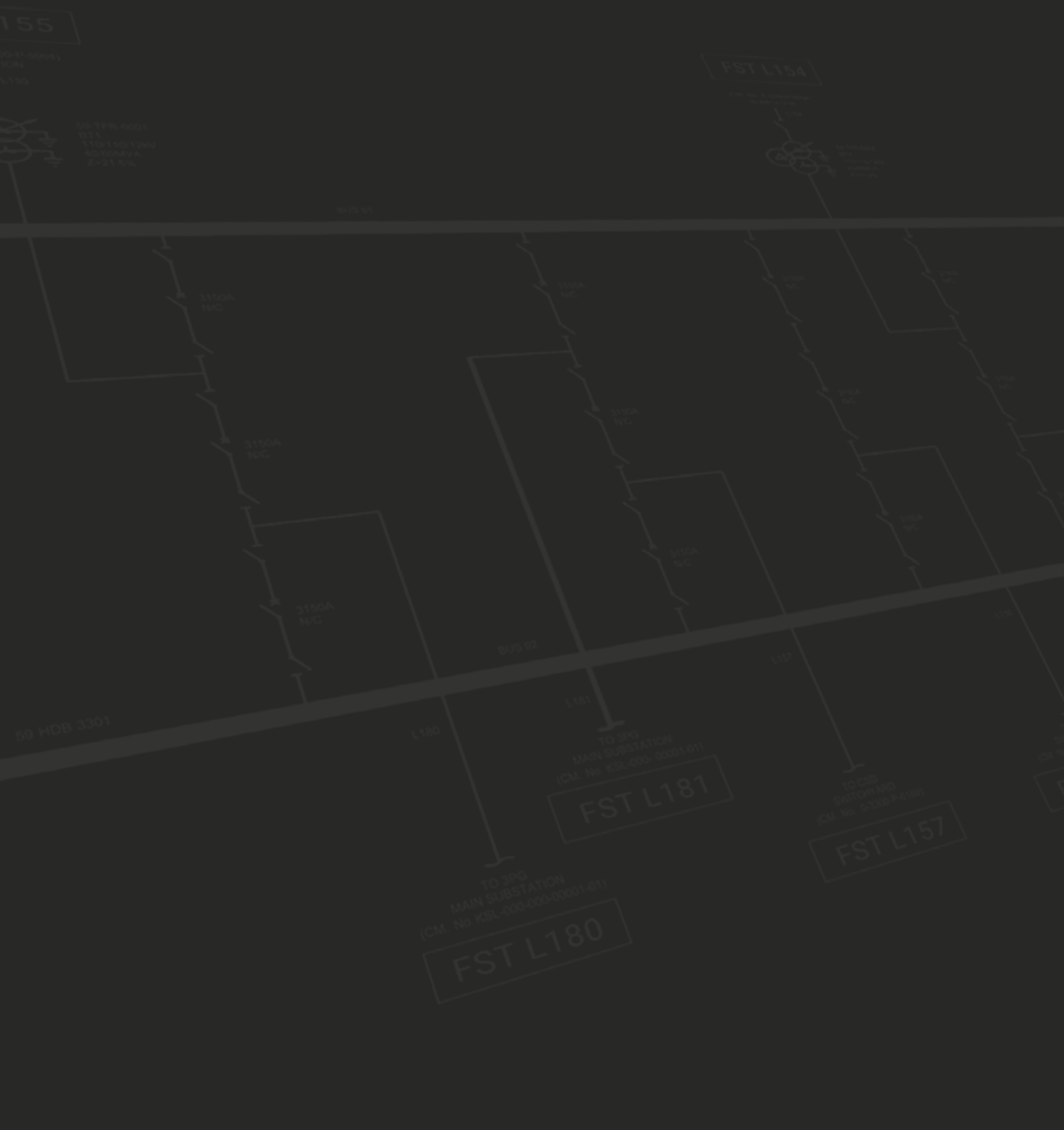
SCADA INTEGRATION
Full network integration into SCADA systems via Modbus. Other protocols are available on request.



NETWORKING
Ethernet and Fibre Optic networking options with remote access capabilities.



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POWERTRONICS PVT. LTD.
AN ISO 9001 : 2015 COMPANY

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