

LIFEVIEW® PDA III

Online Condition Monitoring

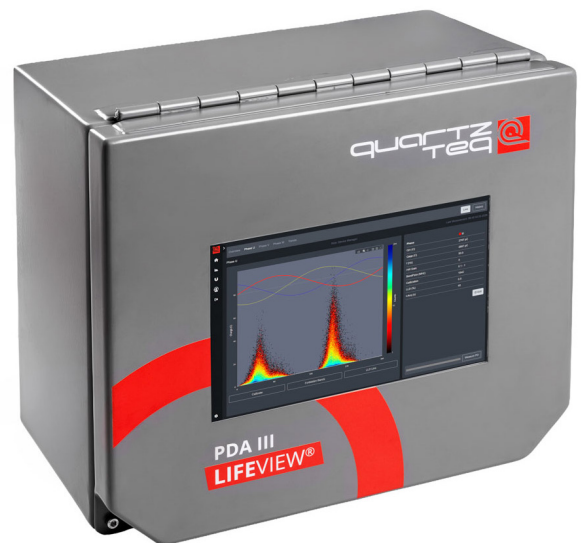
A market leader in electrical condition monitoring of rotating machines, providing live and online data of machine health.

The LIFEVIEW® PDA III is the latest generation of our permanently installed online condition monitoring systems, purpose-built for high voltage motors and generators in demanding industrial environments. It continuously measures Partial Discharge (PD) at user-defined intervals, providing operators with real-time trending, alarm notifications, and critical insights into insulation health.

Key Features

- 3 channel PD monitoring with 16-bit resolution
- Advanced interference filtering capabilities
- Gain configuration options to allow for connecting to most* PD sensors
- Optional: Shaft Voltage and/or Rotor Flux
- Built-in analogue output and warning/alarm relays
- Built-in screen with live visual indicators for warning alarms and trend overview
- Internal data storage for long-term trend analysis
- User-friendly data access locally or via web browser
- Robust IP66-rated aluminium alloy enclosure
- Compliant with EU directives 2014/30/EU, 2014/35/EU & 2011/65/EU

*Optimal sensitivity achieved with Quartzteq sensors



The LIFEVIEW PDA III Monitors:

- Partial Discharge
- Shaft Voltage (Optional)
- Rotor Flux (Optional)

Additional Options Available:

- WiFi - IEEE 802.11
- Modbus - TCP/IP

#LIFEVIEWConditionMonitoring

Technical Specification

Data Acquisition

- Partial Discharge: 3 channels (0-12 V diff.) measurements in accordance with IEC 60270 & IEC 60034-27-2
- Shaft Voltage: 2 channels (-5V to 5V)
- Rotor Flux: 1 channel (-6V to 6V)
- Synchronisation Sources: Internal, External, Phase 1 / 2 / 3
- Partial Discharge Bandpass Frequencies: 100kHz-1MHz, 500kHz-10MHz, 1MHz-10MHz, 2MHz-10MHz
- 512Gb SSD for data storage

Interfaces

- Power Supply: 100-240VAC +/- 10%, 50/60Hz or 80-370VDC
- Maximum Power: 72W
- Analogue Output: 4 channel 4-20mA
- Relay Output: 4 NO/NC Outputs
- LAN: Ethernet RJ45 External Port
- Data Communication: 2x USB External Ports

Environment

- Operating Temperature: -10 - 55°C
- Relative Humidity: 10-90%
- IP Rating: IP66
- ATEX/IECEX Rating: Safe area only

Mechanical Dimensions

- Dimensions: 370mm (W) x 330mm (H) x 224mm (D)
- Weight: 11kg

Software

- Partial Discharge: Phase resolved PD patterns displayed in a phase or time reference mode
- Partial Discharge Values: Apparent charge (Qm, Qapp)
- Shaft Voltage waveform display including harmonic orders
- Shaft Voltage and current measurement displaying maximum and RMS values
- Rotor flux leakage display with integrated total flux and normalised difference between rotor coils
- Operating System: Windows IoT

Quartzteq GmbH reserves the right, without further notice, to change the product specifications and/or the information contained in this document for improvements of the product

Why LIFEVIEW PDA III?

- **Plug-and-Play:** Install effortlessly, no extra enclosures or software required
- **Purpose-Built:** Engineered by rotating machine experts for predictive maintenance
- **Built-in Display:** View data instantly with real-time insights
- **IoT-Ready:** Integrate seamlessly with 3rd party systems

Order Code

QPDAlII-Ax-Sx ...

A1: IP66 enclosure for safe area applications

S1: Advanced PD software

S2: Advanced PD and Flux monitoring software

S3: Advanced PD and Shaft Voltage monitoring software

S4: Advanced PD, Flux and Shaft Voltage monitoring software

Optional Modules:

M1: TCP Modbus communication

W1: WiFi enabled

Customers are advised to consult our technical support team to ensure proper compatibility with specific machines and sensor configurations

Key Contact Information

To request a quotation or further information please contact

Quartzteq

+41 (0) 27 722 27 90

info@quartzteq.com

Quartzelec

+44 (0)1788 512512

info@quartzelec.com

Contact Your Local Authorised Distributor

www.quartzteq.com/contact



+41 (0) 27 722 27 90 | info@quartzteq.com | www.quartzteq.com