

# LIFEVIEW® PDA II

## Analyser: IP66 - Safe Area Installation

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

The LIFEVIEW® PDA II is a permanently installed online condition monitoring system designed specifically for high voltage motors and generators. The analyser measures partial discharge (PD) at user defined intervals and contains the appropriate circuitry to provide operators with alarms and a live trend of the partial discharge magnitudes which have been proven to have a direct correlation with insulation health. The partial discharge data is stored internally to the device and can be accessed for in depth analysis by an expert who will be capable of diagnosing and recommending any remedial actions required.

### Key Features

- 3 channel PD monitoring
- Advanced interference filtering capabilities
- Gain configuration options to allow for connecting to most PD sensors
- Shaft voltage monitoring
- Rotor leakage flux monitoring
- Built in analogue outputs and warning/alarm output relays
- Complete with live visual indicator warning alarms and trend screen
- 1 years' worth of data storage



### The LIFEVIEW PDA II Monitors:

- Partial Discharge
- Shaft Voltage
- Air Gap Flux

### Additional Options Available:

- WiFi - IEEE 802.11
- Modbus - TCP/IP or RTU (other communication protocols are available on request)

#InnovativeProductsforRotatingMachines

# Technical Specification

## Data Acquisition

- Partial Discharge: 3 channel, measurements in accordance with IEC 60270 & IEC 60034-27-2
- Shaft Voltage: 2 channels
- Air Gap Flux: 1 channel
- Synchronisation Sources: Internal, External, Phase 1, Phase 2, Phase 3
- Partial Discharge Bandpass Frequencies: 100kHz-1MHz, 500kHz-10MHz, 1MHz-10MHz, 2MHz-10MHz

## Interfaces

- Power Supply: 100-240Vac, 120-375Vdc
- Maximum Power: 60W
- Analogue Output: 4 channel 4-20mA
- Relay Output: 2 NO/NC Outputs
- LAN: Ethernet RJ45 External Port
- Data Communication: 2x USB External Ports

## Environment

- Operating Temperature: 0-60°C
- Relative Humidity: 10-90%
- IP Rating: IP66
- ATEX/IECEX Rating: Safe area only

## Mechanical Dimensions

- Dimensions: 370mm (W) x 319mm (L) x 219mm (H)
- Weight: 8kg

## 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
- Air gap flux leakage display with integrated total flux and normalised difference between rotor coils

## Why LIFEVIEW PDA II?

- Compatible with almost any sensor
- Trend PD
- Capable to be used as an IoT device
- Specifically engineered for rotating machine PD analysis
- Communicate with control systems

## Order Code

### QPDAll-Ax-Sx ...

A1: IP66 enclosure for safe area applications

A2: Ex/ATEX approved enclosure for hazardous areas

S0: Entry level PD software

S1: Advanced PD software

S2: Advanced PD software and flux monitoring

S3: Advanced PD software and shaft voltage monitoring

S4: Advanced PD, flux and shaft monitoring software

### Additional Modules:

M1 - TCP/RTU Modbus communication

W1 - WiFi enabled

*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*

## Key Contact Information

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