

LIFEVIEW PDA II ATEX

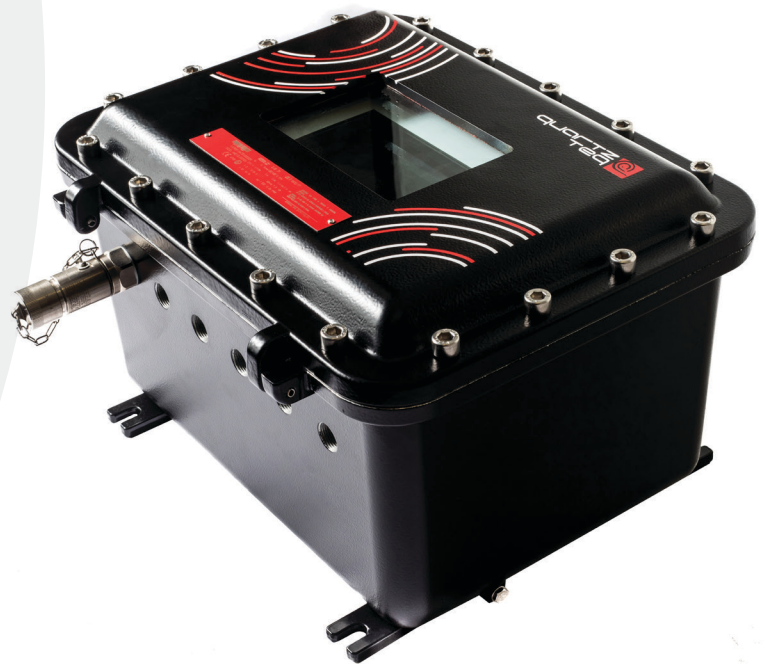
Analyser

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

The LIFEVIEW® PDA II ATEX is a permanently installed online condition monitoring system designed specifically for high voltage motors and generators installed in hazardous area environments. 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 PD magnitudes which have been proven to have a direct correlation with insulation health. The PD 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

- IECEx/ATEX EEx-d IIB T5 IP66 Gb enclosure
- 3 channel PD monitoring
- Advanced interference filtering capabilities
- Gain configuration options to allow for connecting to most PD sensors
- Rotor leakage flux monitoring
- Built in analogue outputs and warning/alarm output relays
- Complete with live visual indicator warning alarms and trend screen
- Stores up to 3 years of PD measurements including patterns (depending upon measurement type and interval)



The LIFEVIEW PDA II Monitors:

- Partial Discharge
- Air Gap Flux

Optional Module:

- WiFi - IEEE 802.11
- Modbus - TCP/IP

#LIFEVIEWConditionMonitoring

Technical Specification

Data Acquisition

- Partial Discharge: 3 channel, measurements in accordance with IEC 60270 & IEC 60034-27-2
- 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: 110-240Vac 50/60Hz
- Maximum Power: 60W
- Analogue Output: 4 channel 4-20mA
- Relay Output: 2x NO/NC Relays
- LAN: IECEx/ATEX Ethernet RJ45 Bulkhead connector

Environment

- Operating Temperature: 0-50°C
- Relative Humidity: 10-90%
- Enclosure IP rating: IP66
- Hazardous Area ATEX/IECEx rating: Ex d IIB T5 Gb
- Certificate Number: INERIS13ATEX0022X IECEx INE13.0070X
- Manufactured in conformance with IEC60079-1

Mechanical Dimensions

- Dimensions: 415mm (W) x 330mm (H) x 260mm (D)
- Weight: 22kg

Software

- Partial Discharge: Phase resolved PD patterns displayed in a phase or time reference mode
- Partial Discharge Values: Apparent charge (Qm, Qapp)
- Air Gap Flux Leakage: Flux 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

Key Contact Information

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Why LIFEVIEW PDA II?

- Compatible with most sensors; optimal sensitivity achieved with Quartzteq sensor range
- Trend PD
- Can be used as an IoT device
- Specifically engineered for rotating machine PD analysis
- Communicate with control systems

Order Code

QPDAll-Ax-Sx ...

A2: Ex/ATEX approved enclosure for hazardous areas

S1: Advanced PD software

S2: Advanced PD and Flux Monitoring software

Optional Modules:

W2 - Wi-Fi communication option for PDAII ATEX

M1-TCP - Modbus communication



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