

# The Lifeview<sup>®</sup> Analysers

ASSET

SENSOR

ANALYSER

QUARTZ  
eLeC

## Lifeview<sup>®</sup> QLF

A unique solution for mobile high voltage testing.

Quartzteq has developed a range of analysers offering owners and operators of HV motors and generators solutions for either permanent or portable monitoring.

When working in remote parts of the world, or in cramped conditions, the Lifeview QLF is the definitive tool for your condition monitoring needs.

High voltage (HV) testing at 50 or 60Hz requires a large power source, often weighing several tonnes, with a large footprint. The Quartzteq Lifeview QLF package utilises a Very Low Frequency (0.1Hz) Power Source, cutting down the footprint of your HV Power Source to something that can be wheeled around in a trolley case – allowing access to even the most inhospitable environments.

Combine this with our Lifeview QLF measurement device and you are able to monitor both the tangents delta and PD of your rotating electrical machine.

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## Features

- 34 kV at 0.1 Hz output
- Reduced HV source footprint, weight <50kg
- Built in PD coupler
- Measurement up to 20kV
- Measures tangents delta in both grounded and ungrounded modes
- Automatic report generation

## Technical Specification

### HV Source

Input Voltage:	100V-240V, 50/60Hz (400VA)
Output Voltage:	Sinusoidal: 0 - 34kV <sub>Peak</sub> , 0-24 kV <sub>rms</sub> DC: ±34kV Squarewave: 34kV
Dimension (LxWxH):	430 x 250 x 360mm
Weight:	19.5kg

### Data Acquisition

Standards:	IEC60270 & IEC TS 60034-27
Partial discharge:	1 channel
A/D converter resolution:	16 bits – Y-axis normalised in [pC] or [nC]
Real Time Processed Pulse Repetition Rate:	50kS/s
PD cutoff frequency:	Low: 100kHz, 500kHz High: 500kHz, 1MHz, 2MHz
Capacitance range:	2nF .. 10µF
Loss factor range:	10 <sup>-5</sup> .. 1000 exponential
Voltage Range:	500V .. 24kV <sub>rms</sub>
Frequency Range:	0.05 .. 0.15 Hz
Current Range:	450µA, 4.5mA, 50mA

### Software

Graphical user interface for:

- partial discharge patterns
- calculation of apparent charge according to above IEC standards
- tangents delta measurement
- capacitance, voltage and current measurement
- IR and PI index measurement
- instrument acquisition control panel



### Power Supply

Power supply:	100 - 240V AC // 50-60Hz
Operating temperature:	0 to 45° C
Humidity:	10% to 90%

