

## Why use LIFEVIEW®?



When it comes to rotating electrical equipment, two things are inevitable: wear and tear. As far as you are aware, your motor or generator may be functioning perfectly, but how can you know what is going on inside your machine?

Partial Discharge (PD) results in failures such as earth faults, phase to-phase faults or shorted turns that will eventually cause defects leading to machine repair or rewind. If a PD problem is identified early enough, the situation can be contained, providing you with the opportunity to plan an intervention, to take necessary corrective measures:

Designed by machine experts to evaluate the health of your rotating electrical assets – LIFEVIEW is a key component in reducing total cost of ownership over the lifetime of a machine and an integral element of any reliability centred maintenance (RCM) and repair strategy.

## About Us



Quartzelec is a unique organisation; one that specialises in the development of specific products, all with the singular purpose of protecting rotating machine assets throughout their lifespan.

Part of the Quartzelec group of companies – an unrivalled service partner in the field of Rotating Electrical Machines and Electrical Contracting in both UK and Global Markets, Quartzelec is a vital element of the overall offering of the Quartzelec group with a range of products designed to support both the OEM and owner/operator.

Being at the forefront of new concepts in the protection and life enhancement of electrical machines, Quartzelec continues to demonstrate their proficiency in developing product solutions for both new machines or as retro-fit options.

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## LIFEVIEW®



A fully flexible and modular solution for real-time condition monitoring

## Sensors

Quartzteq has developed a range of LIFEVIEW® sensors to acquire PD from motor or generator windings. For safe area, Ex environments, where surge capacitors are fitted and for voltages up to 34kV.



### QCC12 (up to 12kV)

A coupling capacitor designed to acquire PD signals with only one capacitor required per phase.



### QCC34 (up to 34kV)

A coupling capacitor designed to acquire PD signals with only one capacitor required per phase.



### QCT17

A wide-band current transformer for machines with surge capacitors fitted.



### QRC85

An ideal sensor for installation around HV power cables and bushings.

## On-line Monitoring

Our range of LIFEVIEW® analysers provides owners and operators of HV rotating machines with a choice of permanent and portable, on-line monitoring solutions:



### LIFEVIEW PDAII

A compact and advanced online monitoring system designed specifically for HV motors and generators. The permanently installed analyser measures PD at user defined intervals and provides operators with alarms as well as a live trend of the PD which has been proven to have a direct correlation with insulation health. 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.

Additional monitoring capabilities: shaft voltage, air gap magnetic flux measurements



### LIFEVIEW Mobile

A lightweight portable electrical test instrument which can be used to monitor online PD, two pole generator rotor air gap flux or shaft voltage. LIFEVIEW® Mobile connects to pre-installed sensors and the provided laptop captures the rotating machine insulation condition data from the analyser. One of the key benefits of the equipment is that it can be used with the electrical machine online, giving a crucial saving in outage downtime.

## Off-line Monitoring

LIFEVIEW® solutions for off-line analysis; for single units to a fleet of machines – incorporating PD and tan delta measurements.



### LIFEVIEW QTD

For monitoring Partial Discharge (PD) and Tan Delta (Loss Factor) of your winding insulation, with a built in PD coupler designed to take PD measurements up to 34kV. An essential tool to monitor the ageing of your rotating electrical asset.



### LIFEVIEW QLF

Utilises a Very Low Frequency (0.1Hz) Power Source, cutting down the footprint of your HV Power Source so allowing access to even the most inhospitable environments. With the ability to monitor PD, tan delta, IR and PI levels and weighing less than 50kg, the LIFEVIEW QLF is the definitive tool for your testing needs.