



**ASSET**

**SENSOR**

**ANALYSER**

**QUARTZ  
TEQ**

# The Lifeview® Sensors - PD

To continuously evaluate the condition of your rotating electrical asset.

Quartzteq has developed a range of sensors to acquire PD from motor or generator windings. Options are available for use in both safe area and Ex environments, also for machines where surge capacitors are fitted and at various voltages up to 34kV.

Partial discharge is an incomplete electrical discharge that occurs between insulation or insulation and a conductor. Over time, the insulation system of the machine deteriorates, a process accelerated by thermal, mechanical, ambient and electrical stresses. By assessing the partial discharge levels of the machine winding, the health of the insulation system can be monitored.

Partial discharge produces high frequency current pulses, which are 'picked up' by the Lifeview sensors which are permanently installed.

**24 Hr Support**  
**+44 (0) 8705 002 003**

[www.quartzteq.com](http://www.quartzteq.com)

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## QCC12: suitable for machines rated upto 12kV.

A coupling capacitor designed to acquire partial discharge (PD) signals from motor or generator windings with only one capacitor required per phase.

- 1nF Capacitance
- In built 1000:1 Voltage Divider
- For use in safe areas only
- Installed 1 per phase on the line terminals



## QCC34: suitable for machines rated upto 34kV.

A coupling capacitor designed to acquire partial discharge (PD) signals from motor or generator windings with only one capacitor required per phase.

- 1nF Capacitance
- In built 1000:1 Voltage Divider
- For use in safe areas only
- Installed 1 per phase on the line terminals



## QCT17: ideal for machines with surge capacitors fitted

The QCT17 wide-band current transformer is designed to acquire partial discharge (PD) pulses from motor or generator windings with installed surge capacitors.

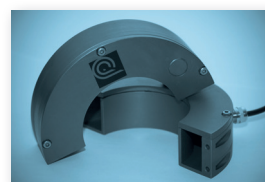
- Installed 1 per phase on the surge capacitor earth cable
- 17mm diameter hole
- Available for safe and hazardous areas



## QRC85: For Ex applications and where ease of installation is necessary

The QRC85 Rogowski Coil is used to measure high frequency current pulses generated by partial discharge and is an ideal sensor for installation around high voltage power cables and bushings.

- For machines with Euromold Terminals
- Installed 1 per phase on the line terminals
- Available for safe and hazardous areas
- 85mm diameter hole
- The CT clips around terminals – no need to disconnect cables during installation



## About Lifeview

Lifeview is Quartzteq's fully flexible and modular solution for real time condition monitoring – a key component in reducing total cost ownership over the lifetime of a machine and an integral element of any structured maintenance and repair strategy.

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