

LIFEVIEW QCT17

Accessory

A partial discharge sensor designed to be fitted to surge capacitors

The LIFEVIEW® QCT17 is a wide band current transformer designed to acquire high frequency Partial Discharge (PD) signals from motor or generator with installed surge capacitor. It uses electromagnetic coupling to sense high frequency signals from an electrical machine with surge capacitors fitted. The sensor is installed around the ground cable of the surge capacitor and provides the capability for wide band PD monitoring. The sensor has a 17mm inner bore for the surge capacitor earth cable to be passed through and as the sensor is not directly connected to the high voltage supply, high reliability and safety is achieved.

Key Features

- Ideal for machines with surge capacitors fitted
- One sensor per phase on the surge capacitor earth cable required
- Wideband frequency suitable for PD monitoring
- No direct connection to high voltage for increased safety
- Compact for ease of installation
- Installation kit included with QCT17 kit



Compatible With:

- LIFEVIEW PDA II
- LIFEVIEW Mobile
- LIFEVIEW Live
- Other compatible PD monitoring system

Applications:

- HV generators with surge capacitors
- Industrial motors with surge capacitors

#LIFEVIEWConditionMonitoring

Technical Specification

General Specifications

- Maximum Voltage: Nominal in standard conditions
- Magnetic Saturation (Knee Point): 25A @50/60Hz
- Tolerance: +/-10%
- Frequency Range: 0.1MHz - 20MHz
- Inner Diameter: 17mm
- Connection Type: 50 Ohm BNC Connector
- Mounting: Supplied with predrilled mounting plate

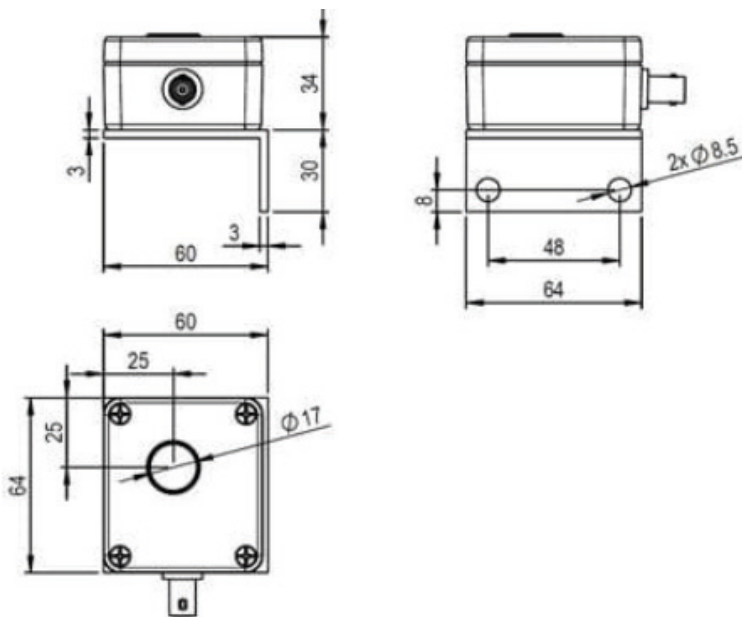
Mounting

- Horizontal or Vertical // 2 x M8 Caphead Screws

Environment

- Operating Temperature Range: -20°C to +85°C
- IP65
- Area Classification: Safe Area Only (hazardous area certification can be obtained if necessary)

Technical Drawings



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

Why QCT17?

- Sensitive to wideband frequency partial discharges
- Designed for PD monitoring with surge capacitors
- Only one sensor required per phase
- Reliable and safe

Order Code

QCT17 Kit includes:

- 3x QCT17 current transformers
- Cables (100m roll - RG-58 coaxial cable)
- QTB overvoltage device

Mechanical Dimensions

- Dimensions: 64mm (W) x 65mm (H) x 60mm (D)
- Weight: 0.25kg per sensor

Key Contact Information

To request a quotation or further information please contact

Quartzteq

+41 (0) 27 722 27 90

info@quartzteq.com

Quartzelec

+44 (0)1788 512512

info@quartzelec.com

Contact Your Local Authorised Distributor

www.quartzteq.com/contact



+41 (0) 27 722 27 90 | info@quartzteq.com | www.quartzteq.com