

LIFEVIEW QTD

Analyser

An offline test instrument designed to assess rotating machine electrical insulation condition at power frequency

The LIFEVIEW® QTD is an offline test instrument which must be used in conjunction with an external 50/60Hz power source; the equipment's sophisticated design allows the user to measure Dissipation Factor (Tan Delta) and Partial Discharge (PD). The test instrument is designed for testing up to 20kV phase to ground, meaning it is suitable for almost all motors and generators world-wide. Communication with the device is established through a fiber optic link ensuring maximum safety for the user while testing high voltage equipment.

Key Features

- Dissipation Factor (Tan Delta) measurement
- PD measurement with phase resolved PD patterns
- Gain configuration options to allow for accurate PD measurement
- Auto report function
- PD calibrator (QCAL) included
- Fibre optic communication link ensuring safety for the user
- Provides insights into insulation condition traditional test methods would not
- Testing up to 20kV



Measures:

- Partial Discharge
- Dissipation Factor (Tan Delta)
- Capacitance

Compatible for use on:

- HV Generators
- HV Motors

#LIFEVIEWConditionMonitoring

Technical Specification

Data Acquisition

- Partial Discharge: Single channel, measurements in accordance with IEC 60270 & IEC 60034-27
- A/D converter resolution: 16 bits
- Coupling capacitor: 1 nF
- Input frequency range: 45 - 65Hz
- Partial Discharge Measurement Frequency: 0.1-10MHz
- Current Range: Maximum 10A (selectable shunts for accurate measurements according to capacitance of test object)
- Harmonics: Numerically rejected
- Test Voltage Range: Up to 20kVrms

Interfaces

- Power Supply: 5V DC rechargeable battery supplied with the kit (one spare also supplied)

Software

- Partial Discharge: Phase resolved partial discharge patterns
- Partial Discharge values: Apparent charge (Qm, Qapp) in [nC] or [pC]
- Dissipation Factor (Tan Delta) measurement
- Capacitance, voltage and current measurement
- Instrument data acquisition control panel
- Auto-report: Generate measurement report (Excel Export)

Environment

- Operating temperature: 0-45°C
- Relative humidity: 10-90%
- Hazardous area ATEX/IECEx rating: Safe area only

Mechanical Dimensions

- QTD Measuring Device: 8KG
- Transport Case: 615mm (W) x 337mm (H) x 466mm (D)
- Transport case with complete kit: 25KG

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Why QTD?

- Designed for high voltage testing
- Assess insulation condition
- Portable Instrument
- Specifically engineered for rotating machines
- Auto-Report PD phase resolved patterns

Order Code

QTD Kit

- LIFEVIEW QTD Measurement System for Tan Delta and Partial Discharge using a 50Hz/60Hz HV source which is not included

QTD Kit includes:

Measuring device, Laptop, QCAL, fiber optic adapter, battery, connection cable set and transport case



Key Contact Information

To request a quotation or further information please contact

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