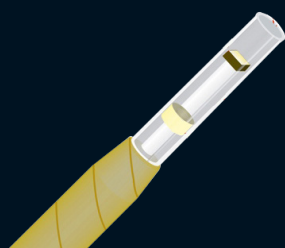
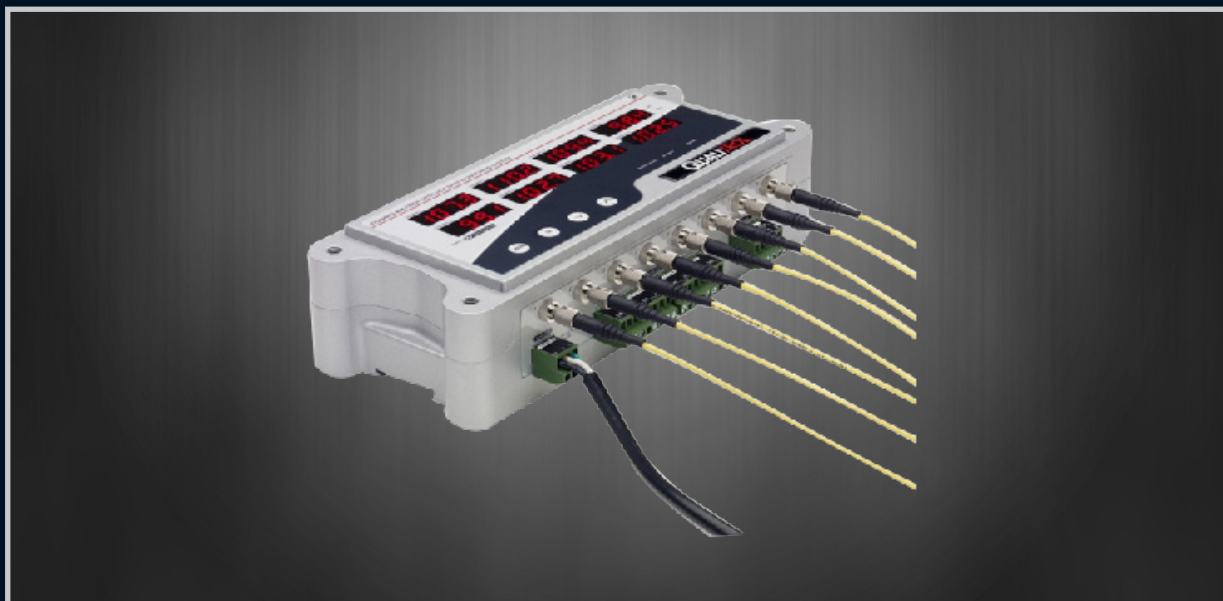


Neoptix Fibre Optic Transformer Temperature Monitoring

- For installation on new & refurbished transformers windings
- Offering Real time temperature monitoring system for Dry type and Oil filled Transformers
- Ideal for heat run tests & hot-spot measurements
- High quality GaAs Technology Fibre Optic probes utilized with multi-channel monitoring system
- Connectivity with Standard comms interfaces and protocols
- Built-in industrial relays for alarming set-up
- Remote access data view capability through iphone
- System tools for predictive analysis



- Direct measurement inside transformer yields highly temperature readings reducing risk of failure or unnecessary reduction in transformer life.
- Over 35,000 installed worldwide.
- Long term, drift-free survivability.
- All materials are chemically and dielectrically resistant.
- ST type connectors resist failure due to vibration.
- Does not require recalibration or complex input to operate.
- Gallium arsenide (GaAs) measurement principle.
- Surpasses ASTM dielectric strength standards for use inside transformers.
- Unique, patent-pending longitudinal slit enables uniform contact with transformer oil over entire probe length.

Reliably monitor asset health in real time

- Individual modules allow for complete QTMS customization
- Certain parameters such as dissolved gas analysis (DGA), partial discharge (PD), and 3rd party sensors can be brought in via communication ports

LTC LOAD TAP CHANGER

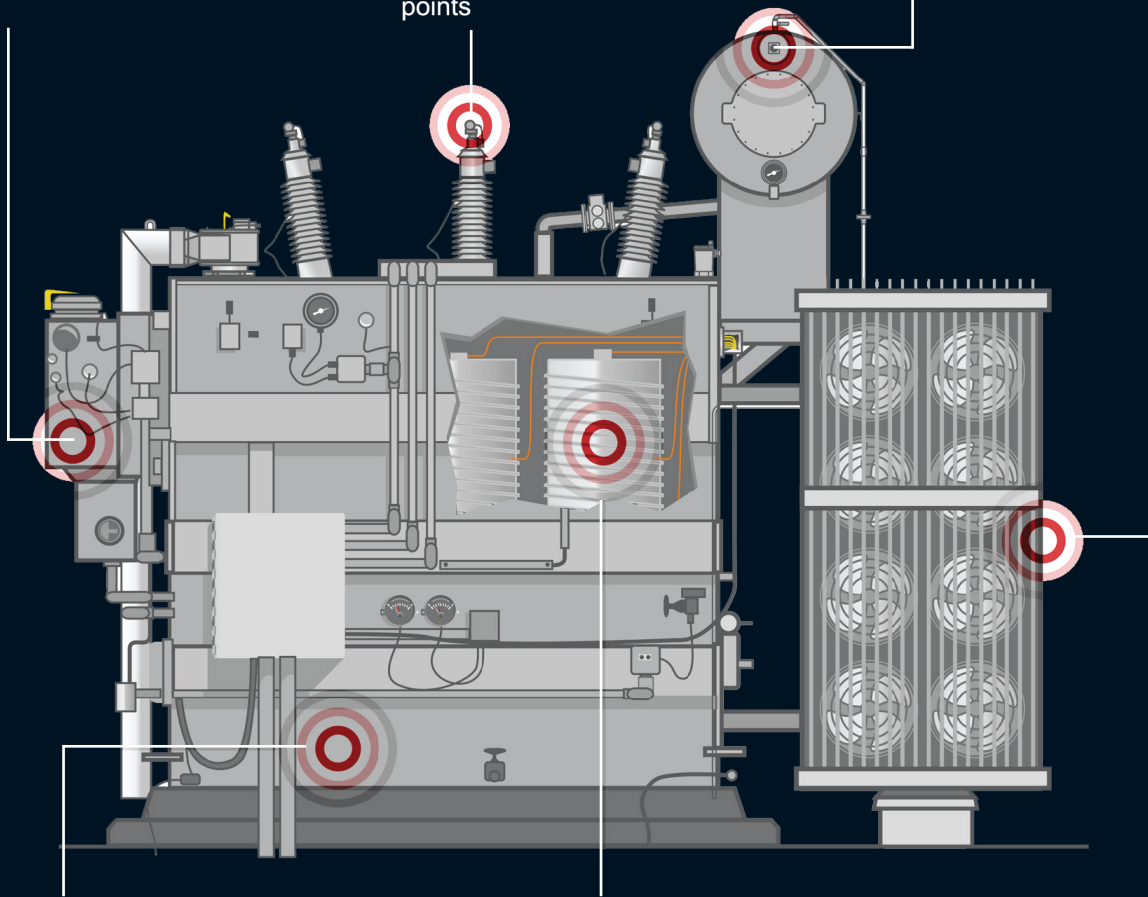
- Contact wear status
- Current position and range
- Tap run time and count
- Motor current power
- Motor actuation counter
- Alarm set points
- LTC temperature and differentials

BUSHINGS

- Capacitance current value
- Capacitance alarm set points
- Tan delta value
- Tan delta alarm set points
- Temperature value
- Temperature alarm set point
- Leakage current value and set points

CONSERVATOR TANK

- Liquid level
- Buccholz relay
- Bladder rupture alarm



MAIN TANK

- Temperature
- Pressure relief
- Rapid pressure rise relay
- Liquid level
- Smart breather
- 3rd party smart sensors

WINDINGS

- Fiber optic winding temperature
- Simulated winding temperature
- Partial Discharge (PD)
- Dissolved Gas Analysis (DGA)
- Geomagnetically Induced Current (GIC)

COOLING MONITORING

- Motor current power and motor run time
- Alarm set points
- Cooling bank temperature and differentials
- Flow indicator status
- Efficiency status

AKM 44612/44622/44617/44618
 Direct mount thermometers
 Control and alarm with switches and optional SCADA output



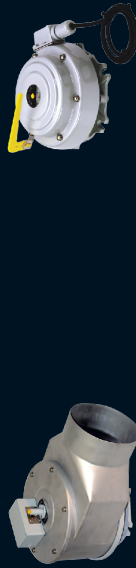
Thermometers

092 Flow Indicators
 Control alarms and other auxiliary equipment



Oil Flow Indicators

XPRD Extra Protection Relief Device LPRD/208/213/216 Large Pressure Relief Devices
 50% more tank protection during overpressure events
 Confidence with the global standard in pressure relief devices



Pressure Relief Valves

900/910 Rapid Pressure Rise Relays
 Protection and detection of dangerous sudden pressure changes



Rapid Pressure Rise Relays

OTIWTI™ Remote mount thermometer (AKM)
 The next generation thermometer from the global leader



T/Guard Link Optical Hot Spot Module



CAB-699 Fiber Optic Temperature Probe



509 DW Intelligent Transformer Monitor with Direct Winding



CON-159 Optical Feedthrough



T/Guard 408 and 408XT Fiber Optic Temperature Monitoring System



COV-121/PLT-201/PLT-202 Junction Box For Tank Wall Plate



KIT-057 Portable Fiber Optic Thermometer
 Compact fiber optic temperature measurement



Neoptix Fibre Monitoring

Serveron Dissolved Gas Analysers

