QUALITROL_® T2[™] PROBE

Fiber optic temperature probe for transformers

Field proven high accuracy probe for measuring hot spot temperature

- Long term survivability, zero-drift results
- Does not require recalibration or complex input to operate
- Withstands kerosene desorption, long term oil immersion and vibrations
- Surpasses ASTM dielectric strength standards, and PD requirements
- Suitable for UHV and HVDC windings, for power transformers and reactors
- Dielectric connector and retaining disk options are also available

Product Summary

Description Robust, oil-permeable Qualitrol Neoptix T2[™] temperature probes for highly accurate measurements of power transformer temperatures. Optimized for installation in standard winding spacers for direct measurements; and any other locations inside the transformer tank.

Application For use inside oil-filled or dry-type power transformers and reactors. Can also be used for any other applications where high electromagnetic fields are present, such as in switchgears, tap changers, busbars, etc. Compatible with all Qualitrol® intelligent transformer monitors, and all Neoptix optical conditioner systems.

Fibers by Neoptix

Sensor area: 300 μ O.D. Material: GaAs Ω -m Resistivity: 10

Continuous longitudinal slit allowing perfect oil penetration throughout probe length Crystal bonding optimized for long term thermal and mechanical stresses US patent 8568025

Virgin PTFE Teflon™ sheathing Dielectric strength: >18,000 V/mm (ASTM D149)

Optical fiber glass/quartz with polyimide coating Dielectric strength: >15,000 V/mm

High performance epoxy bonding Dielectric strength: > 17,000 V/mm

PTFE Teflon™ spiral wrap reinforcement

