

QUALITROL® T2 PROBE

Fiber optic temperature probe



Field proven high accuracy probe for measuring hot spot temperature

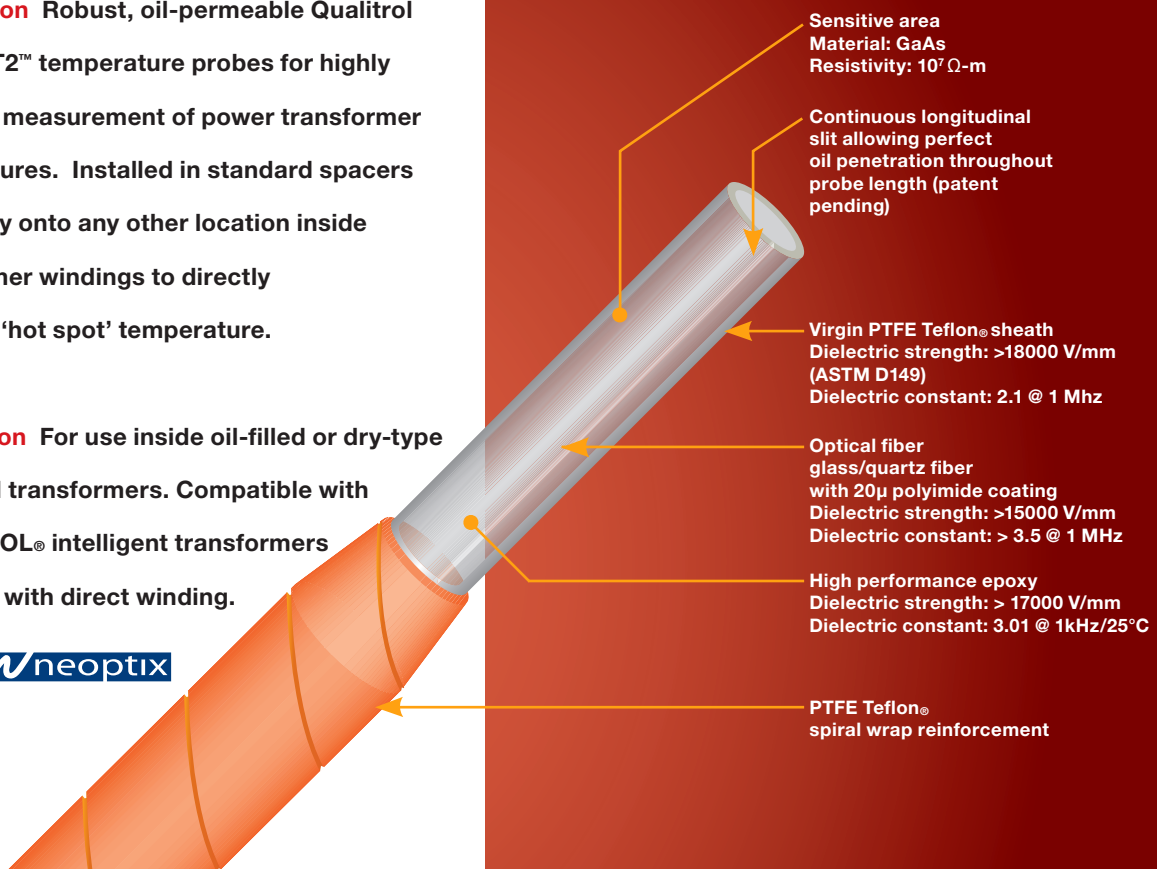
- Long term, drift-free survivability
- Does not require recalibration or complex input to operate
- Withstands kerosene desorption, heat runs, oil immersion and vibrations
- Surpasses ASTM dielectric strength standards for use inside transformers
- A special version (T2D) is available for DC windings of HVDC transformers

Product Summary

Description Robust, oil-permeable Qualitrol Neoptix T2™ temperature probes for highly accurate measurement of power transformer temperatures. Installed in standard spacers or directly onto any other location inside transformer windings to directly measure 'hot spot' temperature.

Application For use inside oil-filled or dry-type electrical transformers. Compatible with QUALITROL® intelligent transformers monitors with direct winding.

Fibers by 



QUALITROL®
Defining Reliability

QUALITROL® T2 Fiber Optic Temperature Probe



Field proven high accuracy probe for measuring hot spot temperature

- Direct measurement inside transformer yields highly accurate temperature readings reducing risk of failure or unnecessary reduction in transformer life
- Thousands are currently installed and in service

Long term, drift-free survivability

- All materials have high dielectric and chemical resistant properties
- ST type connectors resist failure due to vibrations

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

TECHNICAL SPECIFICATIONS

Environmental

Certification	ASTM-D 149 and ASTM-D 2413
Chemical resistance	Solvent and chemical resistant (kerosene, etc.)
Measurement range	-112°F to 480°F (-80°C to 250°C)
Survivability range	-328°F to 572°F (-200°C to 300°C)
Probe permeability	Longitudinal continuous slit (patent pending) on cable insures uniform oil impregnation into sheath

Mechanical

Connector type	Standard fiber optic ST
Probe material	Chemically resistant, inert and dielectric materials; quartz optical fiber
Probe sensitive area	Direct point measurement with sensitive area of 300 microns O.D.
Standard probe length	4, 6, 8, 10 meters (custom lengths available up to 25 meters upon request)

Specifications

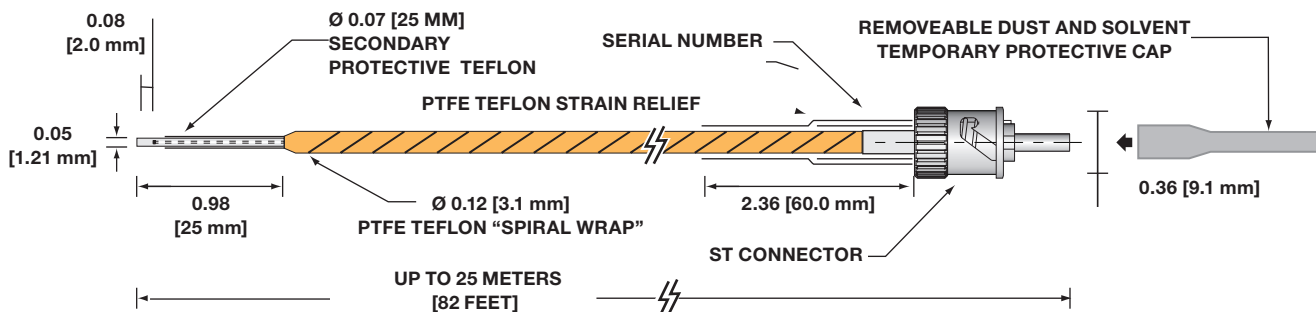
Accuracy	± 1.8°F (± 1°C)
Response time	250 milliseconds
Ordering code	

Uncovered length:
01 cm (standard)
XX = n cm

T2S - - -

Total length:
XX = n meters

Bonded spiral wrap:
0 = Free to move
1 = Bonded (standard)



About QUALITROL®:

QUALITROL® manufactures substation and transformer monitoring and protection devices used by electric utilities and manufacturing companies. It is the global leader in sales and installations of transformer asset protection equipment, fault recorders, and fault locators. Established in 1945, QUALITROL® produces thousands of different types of products on demand, each customized to customers' unique requirements.

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