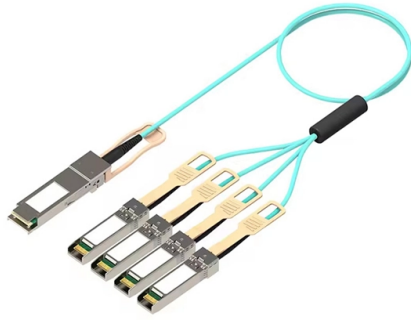


Palestinian Fiber Optic Temperature Sensor Technology



Overview

Fiber optic probes installed directly in windings during manufacturing or through existing pockets provide real-time hot spot monitoring that prevents catastrophic failures. A typical installation uses 6-12 temperature sensors distributed across high-voltage and low-voltage. Fiber optic temperature sensors are deployed across 380 kV and 132 kV substations to monitor transformer windings, cable joints, and GIS equipment in real time, preventing catastrophic failures in the extreme heat of the Arabian Peninsula. This paper reviews the sensing principle, structural design, and. Fiber optic temperature sensors are immune to the many environmental effects that compromise other measurement technologies, can be embedded and installed in locations traditional temperature sensors cannot and deliver an unprecedented level of spatial detail and data without sacrificing precision. Recognized as a leading developer and manufacturer of fiber optic temperature sensing and partial discharge monitoring products, providing solutions for a multitude of industrial applications. Cost-effective continuous partial discharge monitoring for Switchgear and Transformers.



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