TEMPSENS

Features

- Precise monitoring operation for detecting temperature trends in transformers
- Predict hazards
- Effectively regulate loads
- Prolong life expectancy of transformers
- Optimize design level and manufacturing quality
- Guarantee to safely transfer loads under unpredicted conditions
- Cooling system automatically engage to ensure no damage occurs to the transformers insulating properties

Advantages

- Highly stable, with great degree of accuracy, calibration-free, interchangeability.
- Immune to EMI, Microwaves. Good insulation performance integrated into intelligent switchgear and passed the type test.
- Gives Accurate and Reliable Temperature Reading where Thermocouple and RTD's cannot be used.
- Long service life, maintenance-free.
- The probe is small in size and can be used to measure the hot spot in depth, so as to realize the real and effective monitoring of the hot spot.
- It can be displayed locally and integrated into the control system conveniently.
- Easy installation and flexible networking.
- High cost performance ratio.

Applications

- Transformer Winding Temperature Measurement
- Switchgear Hot Spot Temperature Monitoring
- Energy Industry
- Industrial Microwave Industry
- Medical Industry

FluoroSenz

Fluorescence Based Fiber Optic Temperature Monitoring System for Winding Hot Spot of Transformers

Introduction

Fluoro-Senz is fluorescence based fiber optic monitoring system conducts real time monitoring to accurately measure temperature of transformer's winding hotspot and switchgear contact points. It is suitable for work in harsh environment like high pressure, high temperature and strong electromagnetism. The size of FlouroSenz is very small and it can be easily installed on measuring point with high measurement accuracy and high response frequency.

Technical Specifications

Temperature Measurement Range	-40° - 260°C
Temperature Accuracy	± 1°C
Temperature Resolution	0.1°C
Display	7 Segment Digital Tube Display
Number of Channels	1-16
Temperature Unit	C° or F°
Response Frequency	2 Second Per Channel
Communication Ports	RS-485, Ethernet (RJ-45), Fiber Port
Communication Protocol	MODBUS IEC61850 (Compaitable)
Relay Output	8 Programmable Relay 1 System Fault Relay
Analog Output	4-20 mA (one for each channel)
Data Logging	1 GB Industrial Grade SD Card
Power Supply	24 VDC
Power Consumption	⩽10 W
Fiber Optic Length	1 m to 25 m
Operating Temperature	-20°C – 65°C

TEMPSENS

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