

FIBER OPTIC TEMPERATURE SENSOR / TRANSMITTER

The FLUOTEMP fiber optic temperature sensor was developed for applications where conventional electrical sensors do not work. The FLUOTEMP uses a thermal sensitive phosphor which is activated by pulses of light transmitted through a fiber-optic cable.

FLUOTEMP probes are inherently immune to electrical fields and therefore suitable for applications with high voltage and EMI (Electro-Magnetic Interference). Because there is no electricity present in the probe there is no risk of electrical shorts or sparks.

Advantages of using the FLUOTEMP:

- no electricity in the probe or fiber-optic cable
- immune to EMI
- x-ray translucent
- no field calibration necessary
- non-metal probes available
- DIN rail mount
- 1 year warranty



CORPORATE HEADQUARTERS

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FLUOTEMP probes can be customized for specific applications using a wide variety of material types, shapes and attachment features. Contact us for more details.

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE!

SYSTEM PERFORMANCE SPECIFICATIONS

Temperature Measurement Range	-50°C to 350°C (depends on probe type)
Temperature Measurement Accuracy	± 0.5°C
Measurement Sampling Rate	11Hz
Resolution	0.1°C
Long Term Stability	± 0.3°C

ELECTRICAL INTERFACE

Power Requirements	14 - 24 V (<90mA @ 24 V)
Analog Output Signal	4 - 20 mA
Digital Interface	RS-232

ACCESSORIES AND PRODUCT OPTIONS

Fiber Optic Extension Cables	• Up to 50m
Bulkhead Feedthrough Connectors	• Liquid tight permanent seal
Non-Contact Probes	• phosphor applied to measurement surface
Digital Controller	• Programmable relay outputs

ENVIRONMENTAL

Storage Temp. Range	-50°C to +80°C
Operating Temp. Range	-40°C to +60°C

APPROVALS:

Probe	• CSA/UL Class I Div 1 Hazardous location
Converter	• CSA/UL Class I Div 2 Hazardous location • Tested and complies with the European EMC Directive 89/336/EEC • EN61000-6-4:2001 Generic Emission Standard • EN61000-6-2:2001 Immunity Testing EMC requirement



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