

# TEMPERATURE SENSOR

Model FOT

## APPLICATIONS

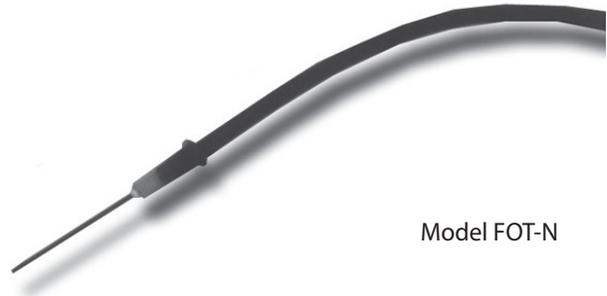
- Dams and bridges
- Tunnel linings
- Nuclear power plants
- Buildings
- Microwaves and RF
- In-situ process monitoring
- Harsh and hazardous environments
- High temperature/voltage/pressure environments

## DESCRIPTION

FOT-N temperature transducer combines all the desired characteristics expected from the ideal sensor. Its compact size, immunity to EMI/RFI/lightning, resistance to corrosive environments, high accuracy and reliability makes it the best choice for temperature measurements in harsh environments. Our fiber optic temperature gauges are based on the thermal expansion of highly stable glass, allowing precise, stable, and repeatable measurements.

FOT-N is mainly used for embedment in concrete or in open air. It is fitted with the extrinsic Fabry-Perot fiber optic transducers enclosed inside a protective stainless steel tube.

Our readout units and dataloggers are designed for civil engineering, R&D, industrial applications and have a built-in datalogging capability for up to 50 000 measuring points.



Model FOT-N

## FEATURES

- Intrinsically safe
- Immune to EMI/RFI/lightning
- High accuracy
- Miniature and rugged sensor

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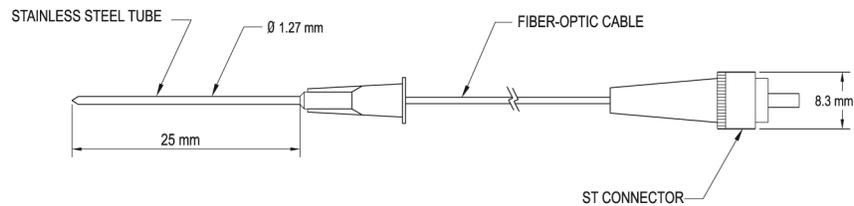
## SPECIFICATIONS

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TRANSDUCER TYPE	FOT-N
Range	-40 to +85°C (cable dependent)
Accuracy/Repeatability	±0.5°C
Resolution	0.1°C
Response time	Less than 1.5 seconds (tube dependent)
EMI/RFI susceptibility	Intrinsic immunity
Fiber optic cable	CFO-3STD (3 mm diameter)*
Protection tube	Stainless steel 1.27 mm O.D. 25 mm length
Connector	ST

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\*Other fiber optic cables available upon request.



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