

**COMPACT SIZE  
GOOD REPEATABILITY  
IDEAL FOR HARSH ENVIRONMENTS**

The compact size, immunity to EMI/RFI/Lightning, resistance to corrosive environments, makes the FOT the best choice for temperature measurements in harsh environments.

### Description

FOT 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 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 PVC or 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.

### Key Features

- Reliability
- Good Repeatability
- Intrinsically safe
- Immune to EMI/RFI/Lightning
- Robust sensor
- Compact size

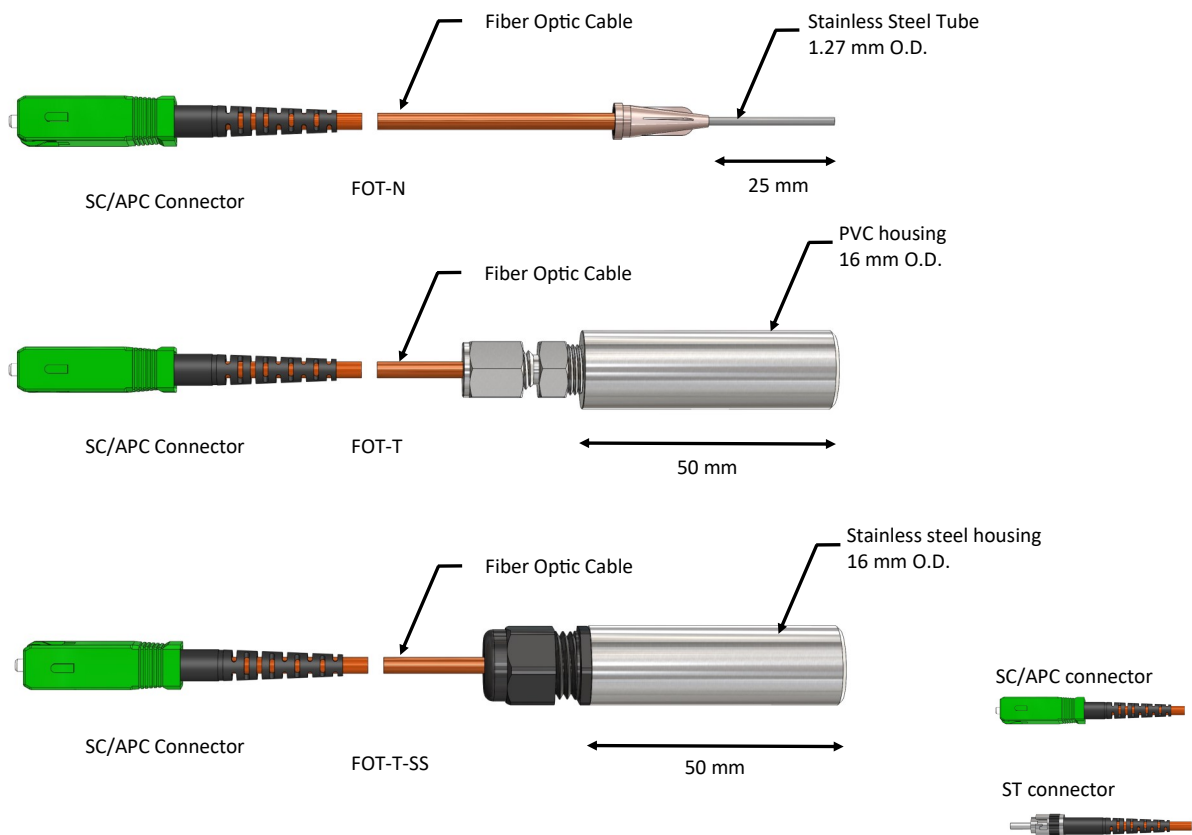
### Applications

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

### Specifications

TRANSDUCER TYPE	FOT-N	FOT-T / FOT-T-SS
Range	-40 to +85°C (cable dependent)	-40 to +85°C (cable dependent)
Accuracy/Repeatability	±1°C	±1°C
Resolution	0.1°C	0.1°C
Response time	Less than 1.5 seconds (tube dependent)	-
EMI/RFI susceptibility	Intrinsic immunity	Intrinsic immunity
Fiber optic cable	CFO-3STD (3 mm diameter)*	CFO-3STD (3 mm diameter)*
Protection tube	Stainless steel	PVC (Model FOT-T)
Diameter	1.27 mm O.D.	16 mm O.D.
Length	25 mm	50 mm
Connector	SC/APC (standard) or ST (optional)	SC/APC (standard) or ST (optional)

\*Other fiber optic cables available upon request.



### Ordering Information

Please specify:

- Transducer type
- Cable length
- Connector: SC/APC or ST
- Fiber optic readout instruments

Smartec SA  
Via Pobietta 11  
CH-6928 Manno, Switzerland

Phone +41 91 610 18 00  
Fax. +41 91 610 18 01

Email info@smatec.ch  
Web www.smatec.ch

**NX** NOVA  
METRIX