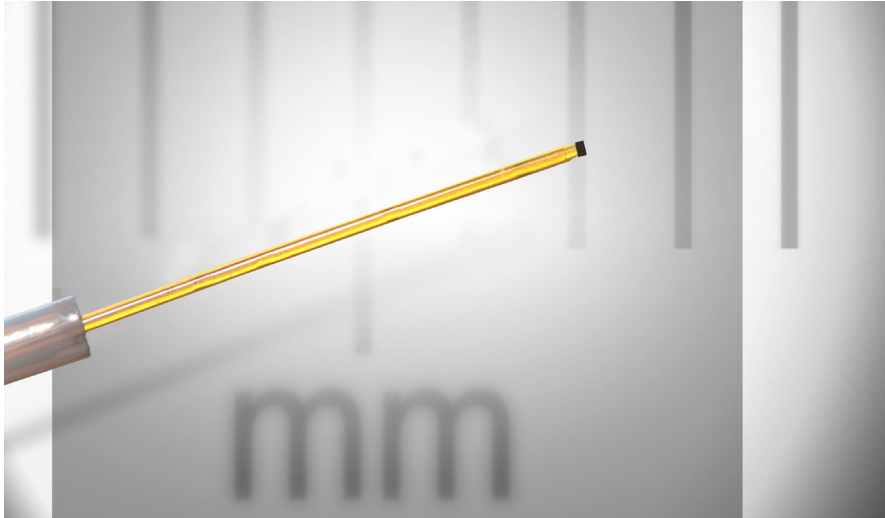


# FIBER OPTIC TEMPERATURE SENSOR

FOR FAST RESPONSE TIME REQUIREMENT



## KEY FEATURES

- Good accuracy
- Small and robust design
- Outstanding repeatability
- EMI/RFI/RFI and microwave immune
- Intrinsically safe
- OEM-type and custom version

**OTG-F** Compatible with Opsens Solutions' GaAs (SCBG) signal conditioners

## DESCRIPTION

Opsens Solutions' OTG-F fiber optic temperature sensor offers the **highest performances in the industry**. The OTG-F sensor uses the well proven technique based on the temperature-dependent bandgap of GaAs crystal as the temperature transduction mechanism. Its small sensing GaAs crystal located at the tip of the optical fiber makes it convenient for **tip measurement applications**.

Combined with Opsens Solutions' SCBG (Semiconductor Bandgap) signal conditioning technology and with the inherent advantages of fiber optic, the OTG-F delivers **unprecedented repeatability and reliability in the most adverse conditions** such as high level of EM, RF, MR and microwave field environments.

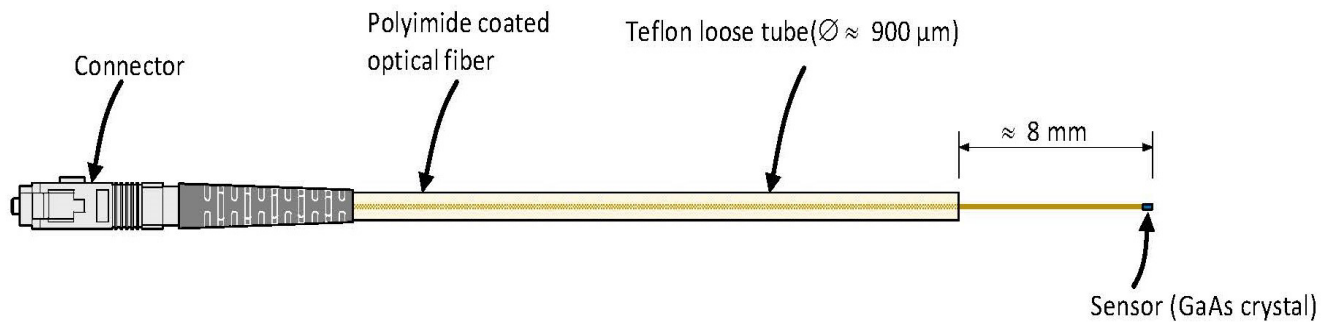
The OTG-F is made with industry standard optical fiber and is compatible with all Opsens Solutions' SCBG signal conditioners. This compact and **robust fiber optic temperature sensor** is available with different optical cables and sheath options and is customizable according to customer specific applications or for OEM-type applications.

## APPLICATIONS

- Dynamic temperature monitoring
- EM, RF and microwave environments
- High voltage environments
- In-situ process control
- RF ultrasound and electro surgery environment
- Low cost disposable sensor

# OTG-F

## FIBER OPTIC TEMPERATURE SENSOR



### SPECIFICATIONS

TEMPERATURE OPERATING AND CALIBRATED RANGE	-40 °C to +250 °C (other ranges available upon request)
RESOLUTION	0.05 °C
ACCURACY	± 0.8 °C or better for other temperature range
RESPONSE TIME	5 ms
OPERATING HUMIDITY RANGE	0-100 %
EMI/RFI SUSCEPTIBILITY	Complete immunity
CALIBRATION	NIST traceable
CABLE LENGTH	1.5 meters standard (other lengths available)
OPTICAL CONNECTOR	LCA, ST standard
CABLE SHEATHING	PVC tight buffer or Teflon™ PTFE
SIGNAL CONDITIONER COMPATIBILITY	All Opsens Solutions' GaAs (SCBG) signal conditioners