FIBER OPTIC TEMPERATURE SENSOR

FAST RESPONSE TIME GAAs-BASED FIBER OPTIC TEMPERATURE SENSOR FOR R&D AND INDUSTRIAL APPLICATIONS



KEY FEATURES

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

OTG-M SERIES - (M170-M220-M360-M420-M600-MPK5-MPK8)

DESCRIPTION

Opsens Solutions' OTG-M Series (OTG-M170, OTG-M220, OTG-M360, OTG-M420, OTG-M600, OTG-MPK5 & OTG-MPK8) fiber optic temperature sensors offers high performances. The OTG-M Series sensors 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**. The difference between each model of the OTG-M series is the response time and the diameter of the sensor (OD) are presented on the next page in the specifications section, the detail of each sensor.

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

The OTG-M Series are 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

- Applications that require small size sensors
- Low cost disposable sensor



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