



OEM FIBER OPTIC SIGNAL CONDITIONER FOTEMP1-OEM-MNT

KEY FEATURES

- Designed for OEM integration
- Very small size, small footprint
- Modular electronics support various device configurations
- Measuring range: -200 °C to $+300\text{ °C}$
- High accuracy: $\pm 0.2\text{ °C}$
- Various serial interface options
- Private label option
- Attractive OEM volume discounts

APPLICATIONS

- EMI, RFI and microwave environments
- High voltage environments
- Harsh and hazardous environments
- Nuclear environments
- Aerospace applications
- Process monitoring
- Medical applications (MR)

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DESCRIPTION

The FOTEMP-OEM-MNT is a small form factor PCB-sandwich module designed for low cost insertion of high precision GaAs-based fiber optic temperature sensor technology into OEM applications where common electrical temperature sensors and thermocouples cannot be used.

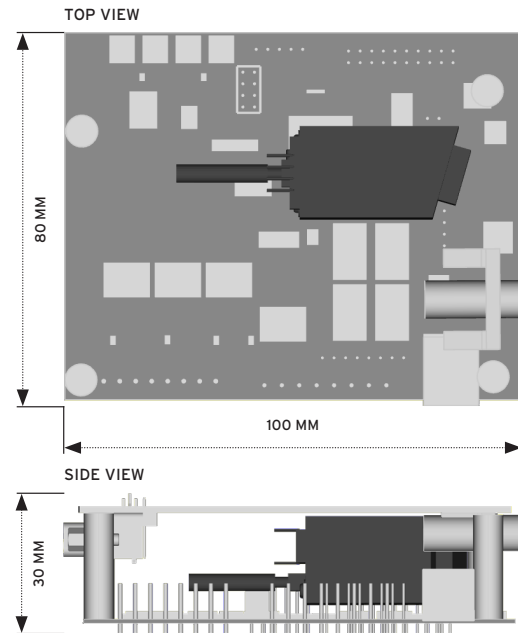
This OEM product is compatible with all TS series fiber optic temperature probes. The sensors are entirely non-metallic and electrically passive, providing immunity to EMI, RFI, NMR, high voltage, microwaves and radiation.

TECHNICAL SPECIFICATIONS

Number of channels	1
Power supply	12 VDC
Power supply	350 mA
Measuring Range	-200°C to +300°C (Actual depends on cal option)
Accuracy	+/- 0.2 °C
Resolution	0.1 °C
Sampling rate	4 Hz
Digital interface	Standard: RS232/USB/SPI
Analog Interface	Optional: 4-20mA
Protocol	ASCII over RS232, USB SPI emulates TI TMP123 See FOTEMP-Assistant data sheet for ASCII protocol details
Data logging	Supplied with FOTEMP-Assistant software. Excel compatible.
Optical interface	ST, compatible with all TS series fiber optic temperature probes
Temperature	Storage: -20°C to +70°C Operating: 0°C to +50°C
Weight	140g
Dimensions	100 x 80 x 30 mm
Warranty	2 years
Calibrations	Standard -40°C to +300°C Optional -200°C to +300°C One point user calibration via software
Calibration Intervals	Under normal use, the instrument does not require recalibration. When sensors and cables are changed, a One-Point Calibration is required. Recommended cal interval is 12 months for ISO systems.

Specifications subject to change without notice

DIMENSIONS



Ordering Info

FOTEMP1-OEM-MNT

Standard single-channel signal conditioner with built-in USB, RS2323 and SPI interfaces

FOTEMP1-OEM-MNT-M

Standard USB/RS232/SPI interfaces + 4-20mA analog output

TS series temperature probes available from stock:

TS2-02	TS2 General Purpose, Length=2m
TS2-06	TS2 General Purpose, Length=6m
TS3-10MM-02	TS3 General Purpose, L1=10mm, L=2m
TS3-10MM-06	TS3 General Purpose, L1=10mm, L=6m
TS4-02	TS4 Harsh Chemicals, Length=2m
TS4-06	TS4 Harsh Chemicals, Length=6m
TS5-20MM-02	TS5 Medical, L1=20mm, Length=2m
TST2-02	TSTRAFO Transformers, Length=2m

Other temperature sensor lengths and configurations available upon request.

Contact Micronor to discuss your OEM application and quantities.



MICRONOR INC, 900 Calle Plano, Suite K,
Camarillo, CA 93012 USA

T +1 805 389 6600 F +1 805 389 6605
sales@micronor.com www.micronor.com