



FIBER OPTIC SIGNAL CONDITIONER FOTEMP1-H

KEY FEATURES

- Portable
- Rechargeable battery operated
- Measuring range: - 200 °C to + 300 °C
- High accuracy: +/- 0.2 °C
- Large backlit LCD-Display
- Built-in RS-232 interface
- RS485 or USB interface option

APPLICATIONS

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

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DESCRIPTION

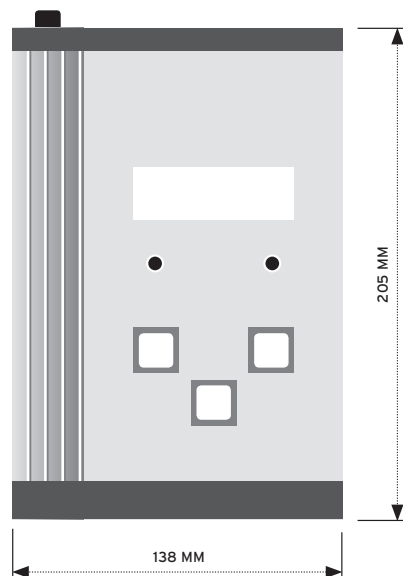
FOTEMP1-H offers unique flexibility. Battery operated for maximum flexibility, the user can move easily from one measurement point to the next. The internal rechargeable battery offers continuous operation for at least 5 hours and be charged/operated with the supplied wall plug-in AC power supply.

The FOTEMP1-H single-channel, handheld signal conditioner features a large LCD display with LED backlight and RS-232 communication port for real-time data acquisition. It can be controlled directly using the front-panel keypad or the supplied "FOTEMP-Assistant" data logging software. One LED indicates battery charging status while second LED displays sensor status.

The TS series temperature sensors are completely passive, non-conductive, and thus immune to EMI, RFI, microwaves, high voltage and ground loops. Ideal for making temperature measurements in high electromagnetic field environments such as MRI, in microwave fields and other environments, where measurement with RTDs, thermocouples, and electro-nic-based temperature sensors is not possible.

DIMENSIONS

FRONT VIEW



TOP VIEW



TECHNICAL SPECIFICATIONS

Number of channels	1
Power supply	9-12 VDC, 350mA, included
Measuring range	-200°C to +300°C
Accuracy	+/- 0.2 °C
Resolution	0,1 °C
Channel sampling rate	2 Hz
Communications	Standard: RS-232 Option: RS485 or USB via adapter
Data logging	Supplied with FOTEMP-Assistant data logging software.
Display	LCD 1 x 8 digits, LED backlight
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
Dimensions/Weight/IP	205 x 138 x 35 mm, 0.9kg, IP54
Materials	Aluminium, Metallic
Warranty	2 years
Calibrations	Standard -20°C to +300°C Optional -200°C to +300°C
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

Ordering Info

F O T E M P 1 - H

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

Other lengths and configurations available upon request. Contact Micronor to discuss your special temperature monitoring application and requirements.



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