

## FIBER OPTIC THERMOMETER FOTEMP1-2-4

### KEY FEATURES

- Modern compact, bench top design
- 1-4 measuring channels
- Temperature display in °C, F or K
- Measuring range: -200°C to +300°C
- High accuracy: +/-0.2°C
- Large 7,1cm (2,8") LCD-TFT color display
- Status LED
- Easy and intuitive user interface
- Quick and easy temperature measurement
- 1-4 relay output option
- 0-10V or 4-20mA analog output option
- Built-in RS-232 and USB interface
- RS-485 interface option

### APPLICATIONS

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

# FIBER OPTIC THERMOMETER

# FOTEMP1-2-4

## DESCRIPTION

The bench top fiber optic thermometer FOTEMP1-2-4 combines innovative design with user-friendly functionality. The modern design makes the temperature measurement efficient and offers complete immunity to RFI, EMI, NMR and microwave radiation when used with TS series GaAs-based fiber optic temperature sensors.

The FOTEMP1-2-4 has an innovative appearance: It has a large screen and a modern keyboard for control of the instrument's operating parameters. The user-friendly display supports high-precision measurements, while the color LCD display offers excellent readout of the measurement values even in low light conditions. The menu supports two languages, German and English. With its compact design. Interface options, including analog and relay outputs, make the device very versatile. The supplied "FOTEMP-Assistant" data logging software allows a detailed evaluation via PC with direct export of data to an Excel spreadsheet.

This FOTEMP instrument has a measuring range from -200°C to +300°C with accuracy of  $\pm 0.2^\circ\text{C}$ . The fiber optic thermometer offers immunity to RFI, EMI and microwave radiation, making it ideal for environments where the use of conventional temperature measuring instruments and thermocouples cannot be used. It is compatible with all TS series GaAs-based fiber optic temperature sensors and is ideal for any application in the lab and industry.

## Ordering Info

**F O T E M P** **4** -

### No. of Channels

- 1** 1 Channel
- 2** 2 Channels
- 4** 4 Channels

### Interface Options

- Blank** No additional options
- 4** 4-20mA analog output
- V** 0-10V analog output
- 5** RS-485
- R** Relays

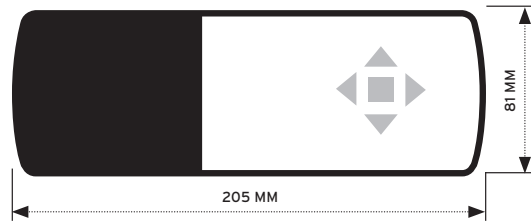
Standard Stock and Rental Models:

- FOTEMP2** 2-Channel Bench Top, RS232/USB
- FOTEMP4** 4-Channel Bench Top, RS232/USB

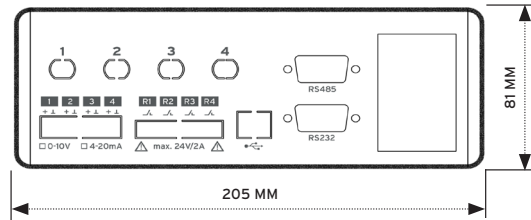
FOTEMP1-2-4 Data Sheet, Doc 98-OPTC-10, Rev B, Released 13-Jan-2016

## DIMENSIONS

FRONT VIEW



BACK VIEW



## TECHNICAL SPECIFICATIONS

<b>Number of channels</b>	1-4
<b>Power supply</b>	100-240VAC / 50-60Hz, > 10 VA
<b>Measuring range</b>	- 200 °C to + 300 °C
<b>Accuracy</b>	+/- 0.2 °C
<b>Resolution</b>	0.1 °C
<b>Sampling rate/Channel</b>	250ms
<b>Analog output</b>	0-10V or 4-20mA
<b>Digital interface</b>	Standard: RS-232 and USB Option: RS-485
<b>Relay output</b>	Option: 1-4, Programmable
<b>Protocol</b>	ASCII software protocol available for custom programming applications
<b>Datalogging</b>	Supplied with FOTEMP-Assistant data logging software. Excel compatible output files.
<b>Display</b>	7,1 cm (2,8") LCD-TFT color display
<b>Optical interface</b>	ST, Compatible with all TS series fiber optic temperature probes
<b>Temperature</b>	Storage: -20°C to +70°C Operating -20°C to +60°C
<b>Dimensions/Weight/IP</b>	205 x 267 x 81 mm, 1.2 kg, IP54
<b>Material</b>	ABS/PC in RAL9003
<b>Warranty</b>	2 years
<b>Calibrations</b>	Standard -30°C to + 300°C Optional -200°C to + 300°C
<b>Calibration Intervals</b>	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



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