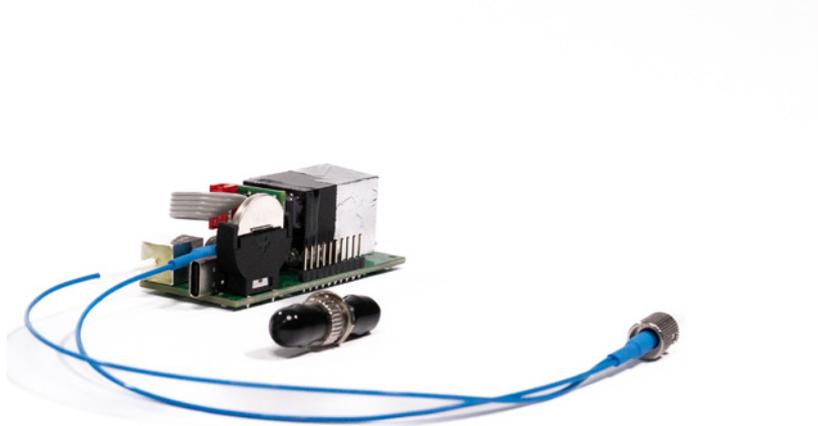


## FOTEMP MN30

### for embedded instrument applications



The FOTEMP MN30, is a sleek, minimalist solution for customer projects.

Our advanced fiber optic sensors excel in measuring temperatures in challenging environments—such as microwaves, high frequencies, high voltages, and magnetic fields—where traditional metallic sensors cannot be used.

The FOTEMP MN30 combines a powerful light source, an optical analyzer, and electronics. With multiple interfaces, including RS232, RS485, and USB, it supports real-time data acquisition through ASCII or Modbus protocols.

Data can be logged continuously and time-stamped on an SD card for easy access. The device requires only one connection, and it has versatile power options—external supply or USB.

Additionally, the “FOTEMP Assistant” software is available for directly controlling and monitoring the device, and the communication protocol is provided for software development.

#### Why buy?

- Small footprint
- Easy OEM integration
- USB powering possible

#### Application

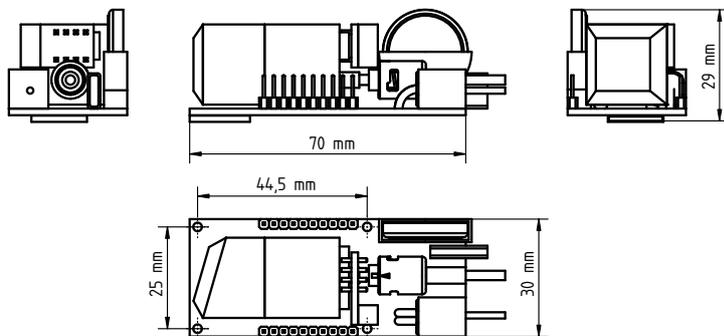
- EMI, RFI and microwave environments
- High voltage environments
- Process monitoring
- Medical applications (MRT)

## TECHNICAL FEATURES AT A GLANCE

<b>FOTEMP MN30</b>	
Channel	1 or 2
Display	Not available
Analog output	Not available
Data logging	Continuous, and timed logging on microSD
Communication protocols	ASCII, Modbus RTU
Interfaces	TTL, RS232, RS485, USB
Relay	NO
Power supply	USB-Powered (Standard) or 9-24 VDC
<b>Environment</b>	
Operating temperature	-20°C to 60°C
Storage temperature	-20°C to 70°C
Probes	Compatible with all COMEM fiber optic temperature probes
Fiber optic core	200 um
Connector type	ST
Mounting options	None
<b>Measurement</b>	
Measurement range	-200°C to 300°C
Measuring Time	< 250 ms per Channel
Accuracy	0.2 K
Resolution	0.1 K

## DIMENSIONS

### FOTEMP MN30



Width (mm)	Height (mm)	Depth (mm)	Weight (Kg)
30	29	70	0.2

[www.comem.com](http://www.comem.com)

The data and illustrations are not binding. We reserve the right to modify the contents of this document without prior notice following the technical and product developments.

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Leaflet 06-2025

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Dresden Germany  
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# FIBER OPTIC THERMOMETER

## FOTEMP-MN30

### Ordering Info

**CE**  
MADE IN GERMANY

STOCKED IN  
VENTURA, CA USA

**F O T E M P - M N 3 0 - 1 - P 0 - B**

#### No. of Channels

- 1 1 Channel
- 2 2 Channels

#### Interface/Power Options

- P0** USB-C, Power & Communications
- P1** Ext DC Power, USB-C + TTL UART + RS232  
+ RS485/ModbusRTU

#### Calibration Options

- A1** -20°C to +150°C
- A2** -40°C to +200°C
- B** -40°C to +300°C
- C** -200°C to +300°C

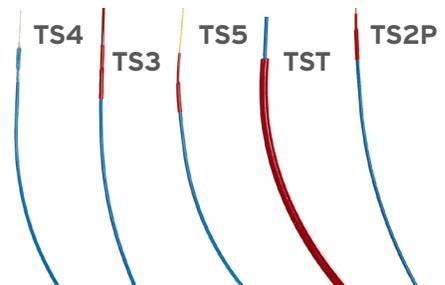
Standard stock MN30 models:

**FOTEMP-MN30-1-P0-B** 1 Channel, USB-C (Power & Communications) B Cal= -40°C to +300°C

Standard stock TS Temperature Probes:

- TS2p-02** Smallest Form Factor, Bare Crystal, L=2m
- TS3-15MM-02** General Purpose, Rigid Tip, L1=15mm, L=2m
- TS3-15MM-05** General Purpose, Rigid Tip, L1=15mm, L=5m
- TS4-02** For Harsh Chemicals and Radiation, L=2m
- TS4-05** For Harsh Chemicals and Radiation, L=6m
- TS5-20MM-02** For Medical, Small Profile, L1=20mm, L=2m
- TS5-20MM-06** For Medical, Small Profile, L1=20mm, L=6m
- TS5-50MM-02** For Medical, Small Profile, L1=50mm, L=2m
- TS5-50MM-06** For Medical, Small Profile, L1=50mm, L=6m
- TST-02** For Oil-Filled Transformers, L=2m

Custom lengths (L and L1) available upon request.



**micronor**  
**sensors**

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