

FOTEMP C15

for environments where measurement
with metal temperature sensors is impossible



The FOTEMP C15 is designed for environments where traditional metal temperature sensors (such as RTDs, thermocouples, and capillary sensors) cannot be used, including microwave, high-frequency, high-voltage, and high-magnetic-field settings, as well as aggressive environments. It measures temperature based on changes in the optical properties of a gallium arsenide crystal (GaAs).

The FOTEMP C15 provides standard analog outputs (one per channel) and a serial communication port for real-time data acquisition.

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?

Serviceability:

- Easy installation and maintenance
- Long term reliability
- High-quality fiber optic sensors and devices

Remote monitoring and control:

- Remote control signals through standard communication protocols

Application

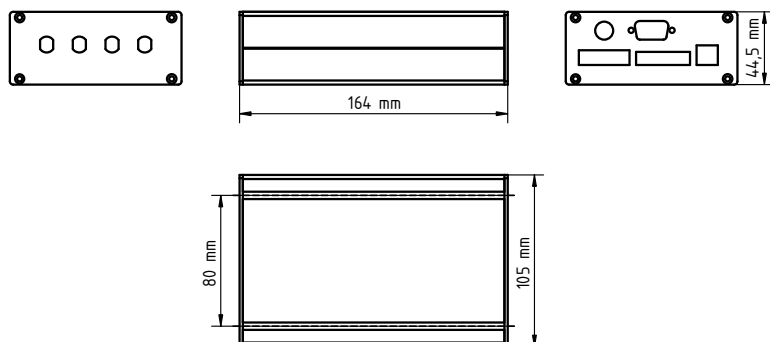
- EMI, RFI, and microwave environments
- High voltage environments
- Process monitoring
- Medical applications (MRT)

TECHNICAL FEATURES AT A GLANCE

| FOTEMP C15 | |
|-------------------------|--|
| Channel | 1, 2, 4 |
| Display | Not available |
| Analog output | 0 - 10 V or 4 - 20 mA |
| Data logging | Not available |
| Communication protocols | ASCII, Modbus |
| Interfaces | RS232, RS485, USB |
| Relay | 4 relays (optional) |
| Power supply | 24 VDC |
| Environment | |
| 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 | DIN rail mounting bracket, Pressed nuts, Threaded bolts |
| Measurement | |
| Measurement range | -200 °C to 300 °C, depending on Calibration Option |
| Measuring Time | < 250 ms per Channel |
| Measurement Uncertainty | ±1.0 K for Factory Calibrated Set (FOTEMP+TS sensors) |
| Resolution | 0.1 K |

DIMENSIONS

FOTEMP C15



| Width (mm) | Height (mm) | Depth (mm) | Weight (Kg) |
|---------------|----------------|---------------|----------------|
| 105 | 44,5 | 164 | 0.5 |

www.micronor.com

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Micronor Sensors Document 98-OPTC-14-E1, Released 08Jul2026

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FIBER OPTIC THERMOMETER

FOTEMP-C15

Ordering Info

F O T E M P - C 1 5 - 4 - - - A 1

No. of Channels

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

Analog Output Options

- Blank None
- M** 4-20mA
- V** 0-10V
- S** User selectable via FTA2, V or M

Relay Option

- Blank None
- R** Relays

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

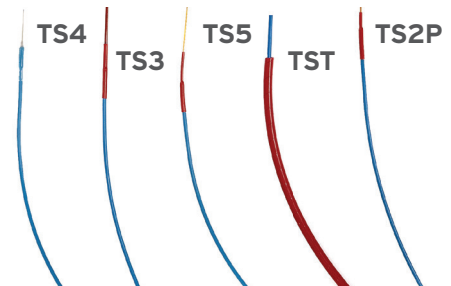
Example:

FOTEMP-C15-4-A1 4 Channels, USB+RS485, No AO or Relays, Calibrated -20°C to +150°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.



CE
MADE IN GERMANY

STOCKED IN
VENTURA, CA USA

SOFTWARE INCLUDED:

ALL FOTEMP MODELS
INCLUDE COPY OF
FOTEMP-ASSISTANT 2 (FTA2)
DATA LOGGING AND CONFIGURATION
SOFTWARE.

THIS SOFTWARE AND TECHNICAL SUP-
PORT DOCUMENTS ARE SUPPLIED ON
USB STICK WITH UNIT PURCHASE OR
RENTAL.

LATEST VERSION CAN ALSO BE
DOWNLOADED FROM OUR WEBSITE.

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sensors**

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