

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

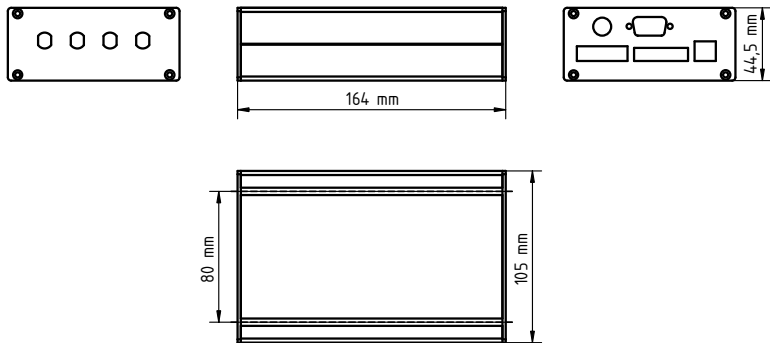
- EMI, RFI, and microwave environments
- High voltage environments
- Process monitoring
- Medical applications (MRT)

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
Measuring Time	< 250 ms per Channel
Accuracy	0.2 K
Resolution	0.1 K

DIMENSIONS

FOTEMP C15



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

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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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

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

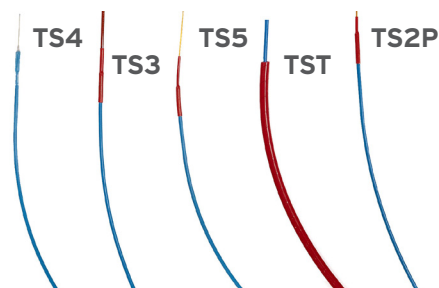
Example:

FOTEMP-C15-4-P1-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.



MADE IN GERMANY

STOCKED IN
VENTURA, CA USA

**micronor
sensors**

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