

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

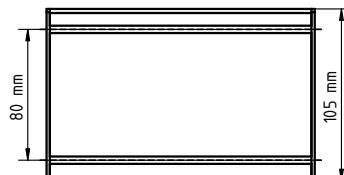
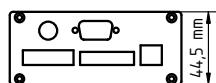
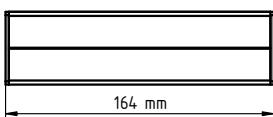
Environment

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.

Copyright 2025 COMEM. All rights reserved

For Sales & Service in North America (US, Canada, Mexico):

MICRONOR SENSORS INC.
2065 Sperry Ave, Suite B
Ventura, CA 93003 USA
+1-805-389-6600
sales@micronor.com
www.micronor.com

Manufacturer:
COMEM Optocon GmbH
Washingtonstraße 16/16a D-01139
Dresden, GERMANY
Tel +49-351 8435990
sales@de.comem.com
www.comem.com

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

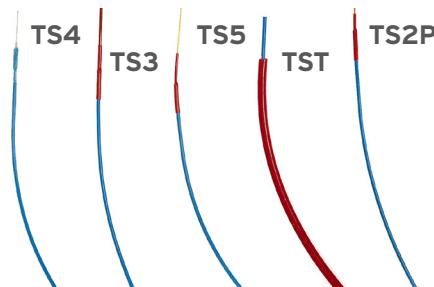
Example:

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.



micronor
sensors

MICRONOR SENSORS, INC.
2065 Sperry Ave, Suite B, Ventura, CA, 93003, USA
+1-805-389-6600 sales@micronor.com
www.micronor.com