

FOTEMP C20

**for environments where measurement
with metal temperature sensors is impossible**



The FOTEMP C20 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).

This compact device includes a light source, an optical analyzer, and the necessary electronics with an interface and display. It features a 2.8-inch color display that shows current measurement values and monitors sensor integrity.

The FOTEMP C20 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

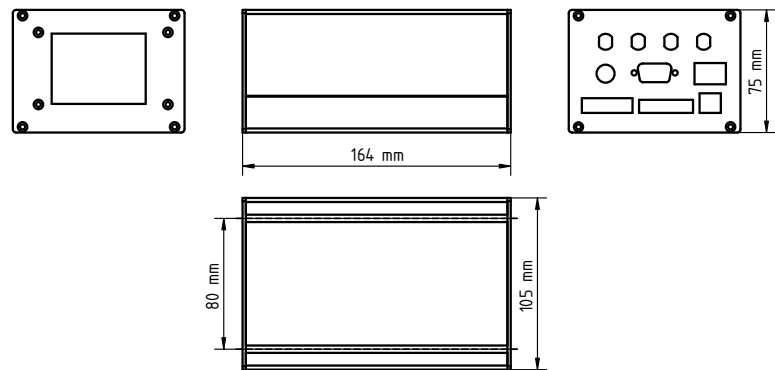
- EMI, RFI, and microwave environments
- High voltage environments
- Process monitoring
- Medical applications (MRT)

TECHNICAL FEATURES AT A GLANCE

FOTEMP C20	
Channel	1, 2, 4
Display	2,8 LCD
Analog output	0 - 10 V or 4 - 20 mA
Data logging	Not available
Communication protocols	ASCII, Modbus
Interfaces	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 C20



Width (mm)	Height (mm)	Depth (mm)	Weight (Kg)
105	75	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

Leaflet 05-2025

Tempcontrol

+31 15 251 18 31
info@tempcontrol.nl
tempcontrol.nl

COMEM SpA

Localita' Signolo 22, SR11
36054 Montebello Vicentino,
Vicenza - Italy
Tel +39 0444 449 311