

## FOTEMP HD20

portable device for onsite testing



The FOTEMP HD20 is a compact, mobile fiber optic thermometer designed for easy operation across various applications. Battery power offers over 5 hours of continuous use and the option to connect to a power supply, which ensures flexibility during measurements.

This advanced device combines a light source, optical analyzer, and electronics into one unit. It features a large LCD for precise readings and a USB port for real-time data acquisition.

Users can control the thermometer through its front-panel keypad or the FOTEMP ASSISTANT 2 software. Built-in LEDs provide feedback on battery charging and sensor readiness.

Depending on the measurement environment, several sensor designs with different types of tubing, sensor tips, and customized sensors are available, contact us for more information.

### Why buy?

#### Serviceability:

- Portable and rechargeable device
- Large LCD display for precise readings
- USB port for real-time data acquisition

#### Remote monitoring and control:

- Remote control signals through standard communication protocols

### Application

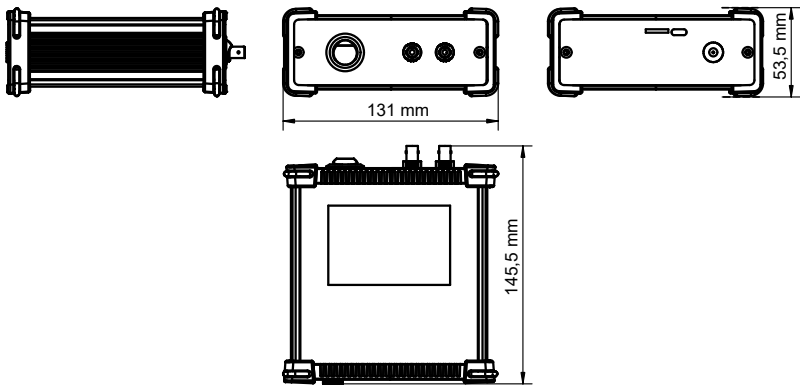
- EMI, RFI and microwave environments
- High voltage environments
- Transformers
- Process monitoring
- Medical applications (MRT)

TECHNICAL FEATURES AT A GLANCE

FOTEMP HD20	
Channel	1, 2
Display	3.5" LCD
Analog output	Not available
Data logging	Continuous, and timed temperature logging, spectrum snapshots
Communication protocols	ASCII
Interfaces	USB
Relay	NO
Power supply	12 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	None
Measurement	
Measurement range	-200°C to 300°C
Measuring Time	< 250 ms per Channel
Accuracy	0.2 K
Resolution	0.1 K

DIMENSIONS

FOTEMP HD20



Width (mm)	Height (mm)	Depth (mm)	Weight (Kg)
131	145,5	53,5	0,6

[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.  
Copyright 2025 COMEM. All rights reserved

Leaflet 06-2025

COMEM SpA  
Localita' Signolo 22, S.R.11  
36054 Montebello Vicentino  
Vicenza - Italy  
Tel +39 0444 449 311

COMEM Optocon GmbH  
Washingtonstraße 16/16a  
D-01139 Dresden  
Germany  
Tel +49 (0) 351 8435990

# FIBER OPTIC THERMOMETER

## FOTEMP-HD20

### Ordering Info

**F O T E M P - H D 2 0 - 2 - B**

#### No. of Channels

- 1** 1 Channel
- 2** 2 Channels

#### 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

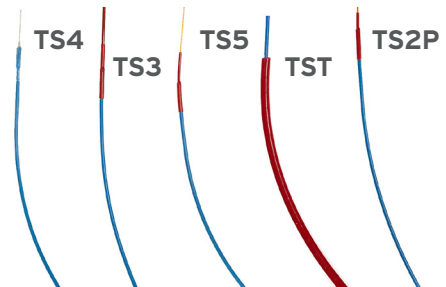
Standard stock FOTEMP-HD20:

- FOTEMP-HD20-1-B** 1 Channel, USB+RS485, Calibrated -40°C to +300°C
- FOTEMP-HD20-2-B** 2 Channels, USB+RS485, Calibrated -40°C to +300°C
- FOTEMP-HD20-2-C** 2 Channels, USB+RS485, Calibrated -200°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.



MADE IN GERMANY

STOCKED IN  
VENTURA, CA USA

**micronor  
sensors**

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