



Fiber Optic Thermometer



FOB100
Starts at
\$2995

FOB102, \$3495, shown larger than actual size.



- ✓ **NIST Certificate Included**
- ✓ **1, 2, or 4 Channels**
- ✓ **Large Display**
- ✓ **No Calibration Required**
- ✓ **Voltage or Current Output**
- ✓ **RS232 or Optional Software Available**
- ✓ **Ideal for Microwave-Type Applications**

The FOB100 Series comprises high-accuracy, multipurpose fiber optic thermometers with 1, 2, or 4 channels. They use an original algorithm to analyze incoming signals, measuring the temperature on each channel.

The standard analog output is 0 to 10 V; 4 to 20 mA is optional. Sensors are sold separately in various cable lengths (see "To Order" chart), are interchangeable, and do not require calibration.

With the optional FOB100-SOFT software for Windows (see "Accessories"), the user can download data to a PC via the RS232 communications port on the front panel. Software features include min/max alarm; full data logging functions; and bar-graph, trend-line, or statistics display.

The FOB100's rugged enclosure and immunity to EMI/RFI interference make it ideal for demanding industrial and laboratory applications.

Specifications

Number of Channels: 1, 2 or 4

Resolution: 0.1°C (0.2°F)

Precision: ±0.8°C (1.6°F) or 1% FS

Response Time:

Single-Channel Version:

10 Hz sampling rate

2- and 4-Channel Versions:

250 ms switching rate between each channel

Operating Temperature:

0 to 50°C (32 to 122°F)

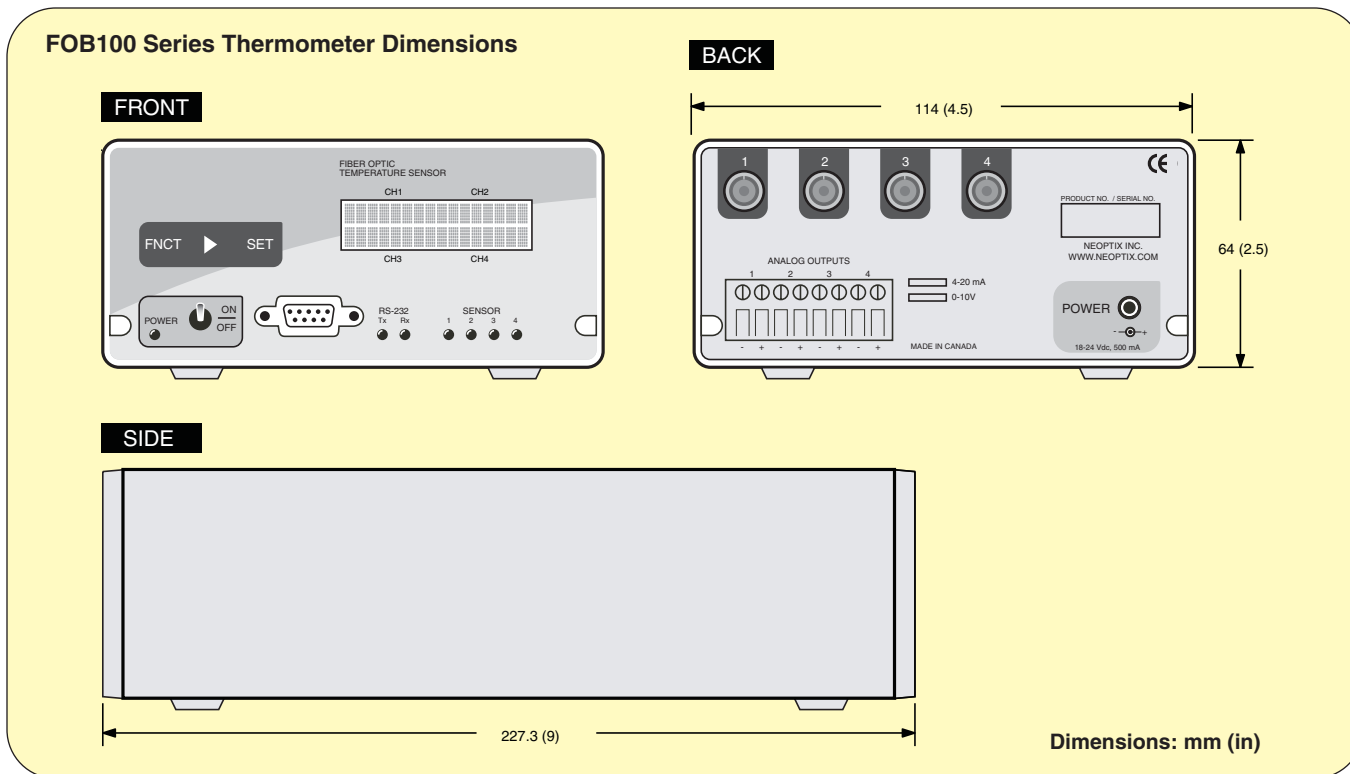
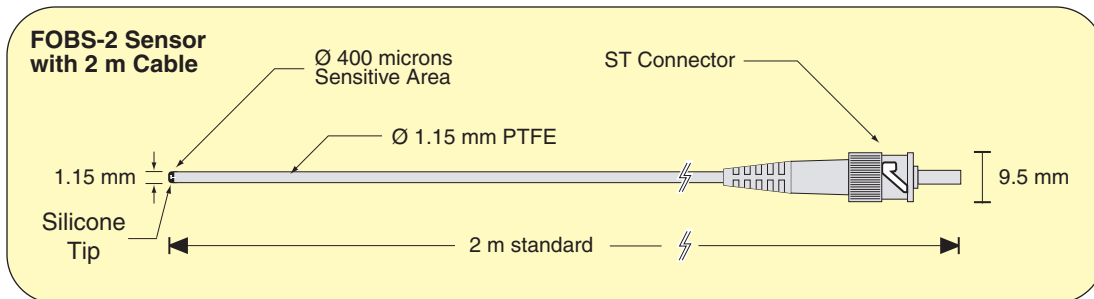
Storage Temperature:

-20 to 60°C (-4 to 140°F)

Display: VFD, 2 lines x 16 characters

Communication Port: RS232

Operating Mode: Front panel, FOB100-SOFT PC software (optional) or RS232 commands



Analog Outputs:

Standard: 0 to 10 V (4)

Optional: 4 to 20 mA

Power: 18 to 24 Vdc, 8 W (included)

Dimensions:

141.4 W x 64.0 H x 227.3 mm L

(5.57 x 2.52 x 8.95")

Weight: 1.2 kg (2.6 lb)

Probe Specifications

Temperature Range:

-80 to 250°C (-112 to 482°F); cryogenic range available (down to 5 Kelvins)

Resolution:

0.1°C (0.2°F)

Accuracy:

±1°C or 1% FS

Response Time:

250 ms or faster



MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)

Model No.	Price	Description
FOB101	\$2995	1-channel fiber optic benchtop thermometer
FOB102	3495	2-channel fiber optic benchtop thermometer
FOB104	3995	4-channel fiber optic benchtop thermometer
Model No.	Price	Required Sensors
FOBS-2	\$249	Sensor with 2 m (6.5') cable
FOBS-10	377	Sensor with 10 m (33') cable
FOBS-20	537	Sensor with 20 m (66') cable
FOBS-30	697	Sensor with 30 m (98') cable**

Note: For corrosive environments, add "-PTFE" to the model number and add \$50 to price.

Accessories

Model No.	Price	Description
FOB100-SOFT	\$395	Windows software and RS232 cable
FOBS-CAB-(*)	100	Polyurethane, sensor extension cable, 2 m (6.5')

* Add number of meters. Each additional meter over 2, add \$15 per meter.

** Maximum available length is 30 m (98').

Comes with complete operator's manual, NIST certificate, and 120 to 240 Vac, 50/60 Hz power supply.

To change the 0 to 10 V output to a 4 to 20 mA output, add "-PV" to the model number, no additional charge.

Ordering Example: **FOB101**, 1-channel benchtop fiber optic thermometer, **FOBS-2**, 2 m (6.6') cable temperature sensor, \$2995 + 249 = **\$3244**.



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