

Fiber Optic Thermometer



FOB102 shown larger than actual size.

FOB100 Series



- 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 10V; 4 to 20 mA is optional. Sensors are sold separately in various cable lengths (see To Order chart, next page), are interchangeable, and do not require calibration.

With the optional FOB100-SOFT software for Windows® (see Accessories chart, next page), 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

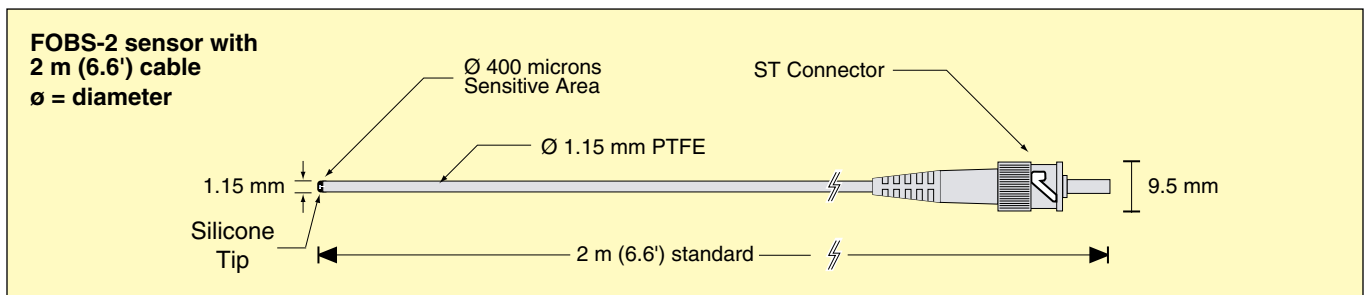
Operating Mode: Front panel, FOB100-SOFT PC software (optional) or RS232 commands

Analog Outputs: 120 to 240 Vac, 50/60 Hz AC adaptor

Standard: 0 to 10V (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)

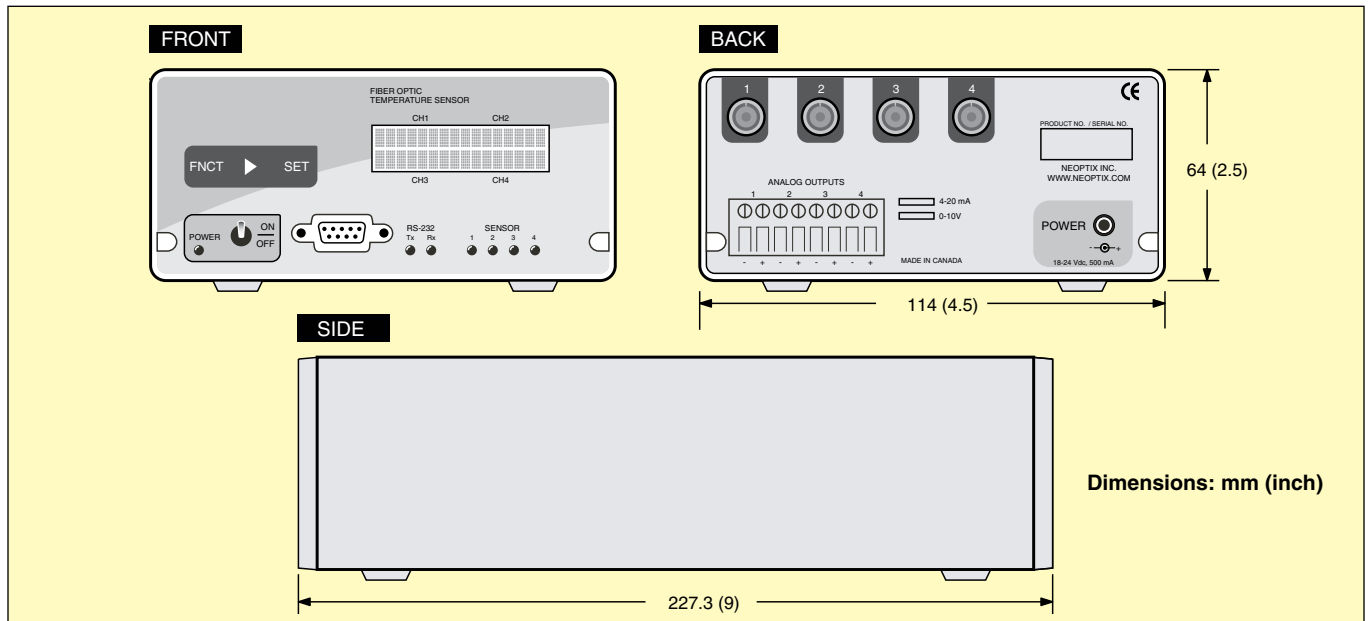
Accuracy: ±1°C or 1% FS

Response Time: 250 ms or faster



FOB100 Series Thermometer Dimensions

FOB102 shown actual size.



To Order Visit omega.com/fob100 for Pricing and Details

Model No.	Description
FOB101	1-channel fiber optic benchtop thermometer
FOB102	2-channel fiber optic benchtop thermometer
FOB104	4-channel fiber optic benchtop thermometer
Model No.	Required Sensors
FOBS-2	Sensor with 2 m (6.6') cable
FOBS-10	Sensor with 10 m (33') cable
FOBS-20	Sensor with 20 m (66') cable
FOBS-30	Sensor with 30 m (98') cable**

Note: For corrosive environments, add "-PTFE" to the model number for an additional cost.

Accessories

Model No.	Description
FOB100-SOFT	Windows software
FOBS-CAB-(*)	Polyurethane, sensor extension cable, 2 m (6.6')

* Add number of meters. Each additional meter over 2 m, there will be an additional cost.

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

Comes complete with operator's manual, NIST certificate, and 100 to 240 Vac, 50/60 Hz AC adaptor.

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

Ordering Example: FOB101, 1-channel benchtop fiber optic thermometer, and FOBS-2, 2 m (6.6') cable temperature sensor.