



# Handheld Fiber Optic Meter

FOH201  
**\$2650**  

- ✓ Measures Temperature, Pressure and Strain
- ✓ Easy to Use
- ✓ High Linearity and Precision
- ✓ 20 Hz Sampling Rate
- ✓ ±5V Analog and RS232 Output Interfaces
- ✓ Windows Software Included
- ✓ Large LCD Display
- ✓ 9V Battery or Wall Transformer-Operated
- ✓ Rugged Case with Rubber Boot Protection

## Applications

- ✓ High Voltage Environments
- ✓ EMI, RFI and Microwave Environments
- ✓ Microwave and Food Processing
- ✓ Hazardous Environments
- ✓ Civil Engineering and Geotechnical

The FOH201 is a compact and portable fiber optic handheld meter to be used with OMEGA's interferometric fiber optic sensors, for temperature, pressure, and strain measurements. At the heart of the FOH201 is the white light polarization interferometry (WLPI) technology which is patent pending. This technology provides a means for making accurate and absolute measurements of the path length difference of any type of interferometric fiber optic sensors. The difference varies according to the parameter of interest.

The FOH201 is equipped with a large visible LCD display and can be battery operated. It comes with a standard ±5V analog output and a RS232 communication port for real-time data acquisition. The FOH201 can be controlled directly using the



FOH201, Fiber optic kit, \$2650, shown smaller than actual size.

front-panel keypad or remotely using the standard RS232 interface. A rugged casing with a removable rubber boot provides good mechanical protection against intensive handling in tough environments.


The FOH201 is compatible with all OMEGA WLPI sensors providing a multi-purpose tool for measuring various parameters. With a 20 Hz sampling rate, a ±0.003% full scale resolution, and a ±0.01% full scale precision, the FOH201 delivers the performance needed for a wide range of critical measurement applications.

## Specifications

**Number of Channels:** 1  
**Measurement Range:** -40 to 250°C (-40 to 482°F)  
**Accuracy:** ±1.0°C full scale  
**Compatibility:** All OMEGA WLPI fiber optic sensors

**Full Scale:** 30,000 nm (path length difference)  
**Resolution:** ±0.003% of FS (no averaging)  
**Precision:** ±0.01% of FS @ ±3.3 sigma limit (99.9% confidence level)  
**Sampling Rate:** 20 Hz standard  
**Output Interface:** ±5V analog and RS232 standard  
**Operating Mode:** Front panel, PC software (included), or RS232 commands  
**Power:** 9V battery or AC adaptor  
**Enclosure:** Plastic casing with removable rubber boot  
**Dimensions (Without Rubber Boot):** 45 H x 105 W x 165 mm L (1.77 x 4.14 x 6.50")  
**Storage Temperature:** -40 to 70°C (-40 to 158°F)  
**Operating Temperature:** 0 to 45°C (32 to 113°F)  
**Humidity:** 95% non-condensing  
**Light Source Life Span:** 40,000-hr MTBF

**AVAILABLE FOR FAST DELIVERY!**

To Order (Specify Model Number)		
Model No.	Price	Description
FOH201	\$2650	Fiber optic kit
<b>Accessories</b>		
FOH200-P	\$250	Replacement pressure probe
FOH200-S	155	Replacement strain probe
FOH200-T	295	Replacement temperature probe
FOH200-RS232C	24	Replacement RS232 cable
FOH200-PS	24	Replacement power supply
FOH200-CK	32	Replacement cleaning kit
EE-2517	130	Reference Book: Microwave and Wireless Synthesizers: Theory and Design 

Comes complete with Windows software, RS232C cable, AC adaptor, 9V battery, temperature probe, strain probe, pressure probe, cleaning kit, and operator's manual.  
**Ordering Example:** FOH201, fiber optic kit, \$2650.



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