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FTBx-1750/OHS-1700

HIGH-PERFORMANCE POWER METER AND OPTICAL HEAD SERIES



EXFO | MULTILINK

40G

100G

SPEC SHEET

Fast, accurate, flexible power measurement in a platform-based solution.

KEY FEATURES

- One, two or four detectors on a single module
- Ultra-High-Power™ remote head for measurement up to 37 dBm
- Continuous sampling rate of up to 5 kHz
- User-configurable trigger input and analog output

RELATED PRODUCTS AND ACCESSORIES



Rackmount Platform
LTB-8



Variable Attenuator
FTBx-3500



MEMS Optical Switch
FTBx-9160

GET FAST, HIGH-PERFORMANCE POWER METER MEASUREMENTS

The FTBx-1750/OHS-1700 High-Performance Power Meter and Optical Head Series is EXFO's modular answer to all your power measurement requirements. Designed for the new LTB-8 platform, these power meters deliver speed, accuracy and flexibility in a platform-based solution.



High-Speed Acquisition with an Extended Range

The FTBx-1750's unique, patented design* saves time, cuts costs and significantly enhances throughput with its continuous-mode peak-acquisition speed of 5208 acquisitions per second. Its 80 dB range and 300 µs stabilization time allows you to simultaneously measure high and low signals on up to two channels. Test more components with a single, small-footprint module, thanks to the FTBx-1750 High-Performance Power Meter's two-channel capability.

Data Acquisition

Perform acquisitions on a single channel, or on several channels simultaneously, and save all results in a file on the FTBx platform or on your network.

Min/Max Function

This special data acquisition mode lets you track the minimum and maximum values measured on each channel over a defined timespan, allowing for the measurement of a component's PDL or a source's power drift over time.

Easy-to-Use Interface

The web-based graphical user interface (GUI) allows for the easy configuration of the power meter and simple status monitoring.



Locally, Remotely or Automated—The Choice is Yours

Control your FTBx-1750 power meter locally using the keyboard, mouse or display, available on the LTB-8, or access the same application remotely via any web browser by accessing your LTB-8 from your network.

The FTBx-1750 can also be easily integrated into an automated test station using the IVI-compliant drivers or available SCPI commands. Remote control is easily performed using Telnet over the built-in LAN port or the GPIB to USB adapter.

* Protected by US patent 7,167,655.

The FTBx-1750: Remote Power/High-Power Measurement

Power, simplicity and flexibility are what you get when you combine up to two OHS-1700 High-Performance Optical Heads with the FTBx-1750 High-Performance Power Meter interface module. This patent-pending* combination allows you to move the power measurement sensor to the device under test (DUT) for efficient testing.

Such a design allows a continuous-mode peak acquisition speed of 5208 samples/s over an 80 dB range, while maintaining a 300 µs stabilization time. Each optical head is individually calibrated, allowing you to interchange heads on a module or between test stations, without compromising on accuracy.

Choose from two sensing options that deliver performance exceeding even the most demanding R&D and manufacturing requirements:

› The FTBx-1750-031-XX models, which use InGaAs front panels detectors, provide an impressive -85 dBm sensitivity.

› The OHS-1700-UH** Optical Head, which comes with an Ultra-High-Power™ detector for safe power measurements up to 37 dBm.

* Protected by US patent 6,621,067

** Protected by US patent 6,437,861

REMOTE HIGH-POWER TESTING MADE EASY



Ultra-High-Power Capability

› Up to 37 dBm

› ± 4% uncertainty (accuracy)

› First-class linearity

SPECIFICATIONS [a] (FTBX-1750/OHS-1700 SERIES) Optical heads must be operated with the FTBx-1750-OHS.

Model	FTBx-1750-031-1/2/4	OHS-1713-UH
Number of detectors	1/2/4	1
Detector type	InGaAs	InGaAs and integrating cavity
Detector size	1 mm detector	9 mm input aperture
Wavelength range (nm)	800 to 1700	930 to 1660
Power range (dBm) [b, g]	8 to –85	37 to –55
Uncertainty	±(5 % + 2 pW) [e, g]	±(4 % + 3 nW) [f, g]
Polarization-dependent responsivity (dB) [c]	N/A	(0 dBm to –50 dBm) ±0.008 typ.
Linearity [d]	±0.015 dB (5 dBm to –55 dBm)	±0.11 dB (35 dBm to 30 dBm) ±0.05 dB (30 dBm to 5 dBm) ±0.015 dB (5 dBm to –22 dBm)
Power resolution (dB) [g]	0.001 (8 dBm to –50 dBm)	0.001 (37 dBm to –25 dBm)
Wavelength resolution (nm)	0.01	0.01
Stabilization time (ms)	0.3	0.3
Sampling rate (sample/s/channel)	up to 5208	
Fiber type (µm)	5/125 to 62.5/125 NA ≤ 0.4 (with BFA-3000)	

GENERAL SPECIFICATIONS

	FTBx-1750-OHS-1/2 FTBx-1750-031-1/2/4	OHS-1713-UH
Size (H x W x D)	25 mm x 159 mm x 185 mm (1 in x 6 1/3 in x 6 7/8 in)	42 mm x 79 mm x 190 mm (1 5/8 in x 3 1/8 in x 7 1/2 in)
Temperature Operating [i] Storage	 0 °C to 40 °C (32 °F to 104 °F) –40 °C to 70 °C (–40 °F to 158 °F)	 0 °C to 40 °C (32 °F to 104 °F) –40 °C to 70 °C (–40 °F to 158 °F)
Number of ports	1/2/4	1
Relative humidity [j]	0 % to 80 % non-condensing	0 % to 80 % non-condensing
Remote control	With FTBx-1750: GPIB (IEEE-488.1, IEEE-488.2), Ethernet and RS-232.	
Instrument drivers	IVI drivers and SCPI commands.	
Standard accessories	User guide, one fiber-optic adapter per channel, Certificate of Compliance and Certificate of Calibration.	

Preliminary

Notes

a. At 1550 nm (unless otherwise specified), with an FC angled connector and a warmup time of 20 minutes, followed by an offset nulling.

b. From 18 °C to 28 °C.

c. At 23 °C ± 3 °C, constant wavelength (1550 nm), constant power and with an FC non-angled connector.

d. At constant temperature in the 0 °C to 40 °C range; nulling required.

e. At 23 °C ± 1 °C with an FOA-322 and an FC non-angled connector, between 1000 nm and 1640 nm. Add 1 % to uncertainty below 1000 nm, and 6 % over 1640 nm.

f. At 23 °C ± 1 °C with an FOA-322 and an FC angled connector, between 1290 nm and 1340 nm, and between 1420 nm and 1640 nm. Add 2 % to uncertainty below 1000 nm, 1 % between 1370 nm and 1420 nm, and 5 % over 1640 nm. All uncertainties valid on the day of calibration. Wavelength must not be equal to any water absorption line.

g. Averaging time of 1 s.

h. For optical power of > 35 dBm, maximum operating temperature is 30 °C. With the FOA-396, maximum operating temperature is 25 °C.

i. From 0 °C to 40 °C.

ORDERING INFORMATION

Power meter module

FTBx-1750-XX-XX-XX

Number of channels
1 = One channel
2 = Two channels
4 = Four channels [a]

Detector type
031 = 1 mm InGaAs detector
OHS = No detector, to be used with the OHS-1713-UH

Example: FTBx-1750-1-031-FOA-322

Connector adapter [b]
FOA-316 = SMA 906 ultra-low-reflection
FOA-322 = FC ultra-low-reflection: FC (PC/SPC/UPC/APC), NEC-D3
FOA-328 = DIN 47256 (LSA) ultra-low-reflection: DIN 47256 (PC/APC)
FOA-332 = ST ultra-low-reflection: ST (PC/SPC/UPC)
FOA-340 = Diamond HMS-0, HFS-3 (3.5 mm) ultra-low-reflection
FOA-354 = SC ultra-low-reflection: SC (PC/SPC/UPC/APC)
FOA-376 = FSMA HMS-10/AG, HFS-10/AG ultra-low-reflection
FOA-384 = Diamond HMS-10, HFS-13 ultra-low-reflection
FOA-396 = E-2000 ultra-low-reflection (PC/APC)
FOA-397 = LX.5 ultra-low-reflection
FOA-398 = LC ultra-low-reflection
FOA-399 = MU ultra-low-reflection

OHS-1713-UH-FOA-XX-XM

Connector adapter
FOA-316 = SMA 906 ultra-low-reflection
FOA-322 = FC ultra-low-reflection: FC (PC/SPC/UPC/APC), NEC-D3
FOA-328 = DIN 47256 (LSA) ultra-low-reflection: DIN 47256 (PC/APC)
FOA-332 = ST ultra-low-reflection: ST (PC/SPC/UPC)
FOA-340 = Diamond HMS-0, HFS-3 (3.5 mm) ultra-low-reflection
FOA-354 = SC ultra-low-reflection: SC (PC/SPC/UPC/APC)
FOA-376 = FSMA HMS-10/AG, HFS-10/AG ultra-low-reflection
FOA-384 = Diamond HMS-10, HFS-13 ultra-low-reflection
FOA-396 = E-2000 ultra-low-reflection (PC/APC)
FOA-397 = LX.5 ultra-low-reflection
FOA-398 = LC ultra-low-reflection
FOA-399 = MU ultra-low-reflection
FOA-U12 = 1.25 mm universal
FOA-U25 = 2.5 mm universal

Example: OHS-1713-UH-FOA-322-1M

Cable
1M = 1 m interface cable (std)
2M = 2 m interface cable

Notes
a. Not available for FTBx-1750-OHS.
b. Not applicable to OHS models.

OPTIONAL ACCESSORIES

BFA-3000 = Universal Bare Fiber Adapter, to be used with FOA-8100 [a]
GP-3010B = 1 m interface cable [b]
GP-3011B = 2 m interface cable [b]

Notes
a. For use with the OHS-1700 only.
b. For OHS-1713-UH only.

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