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Data Sheet
August 14, 2026

EXFO

Exfo IQS-1700 800nM Fiber Optic Optical Power Meter

Exfo IQS-1700 High Performance Power Meter The EXFO IQS-1700 isahigh-performance modular power meter interface for the IQS-600 platform, used with front-panel GeX or InGaAs detectors or OHS-1700 remote optical heads. OEM datasheet SPIQS1700/OHS1700 rates continuous sampling up to 5208 samples/s/channel, 0.3 ms stabilization, and detector options spanning roughly 25 to minus 50 dBm (GeX), 8 to minus 87 dBm (InGaAs), or 37 to minus 55 dBm (Ultra-High-Power head). High-speed component and subsystem power acquisition, multichannel PDL and source-drift tracking with min/max mode, remote high-power EDFA and amplifier testing with OHS-1713-UH, and automated manufacturing test via GPIB Ethernet or RS-232 SCPI. The EXFO IQS-1700 isahigh-performance modular power meter interface for the IQS-600 platform, used with front-panel GeX or InGaAs detectors or OHS-1700 remote optical heads. OEM datasheet SPIQS1700/OHS1700 rates continuous sampling up to 5208 samples/s/channel, 0.3 ms stabilization, and detector options spanning roughly 25 to minus 50 dBm (GeX), 8 to minus 87 dBm (InGaAs), or 37 to minus 55 dBm (Ultra-High-Power head). High-speed component and subsystem power acquisition, multichannel PDL and source-drift tracking with min/max mode, remote high-power EDFA and amplifier testing with OHS-1713-UH, and automated manufacturing test via GPIB Ethernet or RS-232 SCPI.

MODEL **Exfo IQS-1700**	CALIBRATION **Available on request**
CONDITION **Used**	STATUS **In stock**
RFQ / SKU **IQS-1700**	LISTING **https://aumictechlabs.com/products/iqs-1700-2/**

NIST-traceable cal · SAM registered · 30-day returns

NAICS 423690 · 811210 · 541380

This unit

The EXFO IQS-1700 is a optical power meter module engineered for integration into the EXFO IQS-600 Integrated Qualification System and IQS-500 Intelligent Test System. It delivers fast, accurate optical power measurements across demanding R&D and manufacturing environments through a modular architecture supporting one or two OHS-1700 Optical Heads for simultaneous dual-channel measurements and real-time power ratio calculations. Technical Specifications Dynamic Range: 80 dB Stabilization Time: 300 µs Continuous-Mode Peak Acquisition Speed: 5208 samples per second Interchangeable calibrated optical heads for cross-station deployment without accuracy loss Key Features Dual-Channel Capability: Supports simultaneous measurements on multiple channels with real-time power ratio calculations, ideal for optical source referencing and inter-channel power comparison Multiple Optical Head Options: IQS-1712X/1722X: GeX front-panel detectors; high-power measurements to 25 dBm (one or two detectors) OHS-1713W-PL: InGaAs detector, 3 mm detector size OHS-1713-UH: InGaAs and integrating cavity detector; Ultra-High-Power™ capable of safe measurements to 37 dBm IQS-17X3 models: InGaAs front-panel detectors; sensitivity to -87 dBm Measurement Modes: Absolute Mode: Direct optical power measurement Reference Mode: Relative power measurement with user-defined reference level Min/Max Tracking: Captures minimum and maximum power values over defined periods for PDL or source power drift analysis Graph Mode: Real-time user-configurable display with up to four simultaneous curves Graphical User Interface for intuitive control of meter settings and acquisition launching Typical Applications Research and development environments requiring component characterization, manufacturing test floors demanding high-throughput power verification, and optical system qualification where simultaneous multi-channel measurement and power trending are critical. Compatibility & Integration Designed for seamless integration into EXFO IQS-600 and IQS-500 systems. Accepts OHS-1700 series optical heads with individual factory calibration, enabling field interchangeability across test stations and modules.

IQS1700 Characteristics / Specifications

PARAMETER	VALUE
GeX Wavelength Range	800 to 1660 nm
GeX Power Range	25 to minus 50 dBm
GeX Uncertainty	plus or minus 5 percent plus or minus 10 nW
GeX Linearity 10 to Minus 30 dBm	plus or minus 0.015 dB
GeX Power Resolution High Range	0.001 dB from 25 to minus 20 dBm
InGaAs Wavelength Range	800 to 1700 nm
InGaAs Power Range	8 to minus 87 dBm
InGaAs Uncertainty	plus or minus 5 percent plus or minus 2 pW
InGaAs Linearity 5 to Minus 55 dBm	plus or minus 0.015 dB
InGaAs Power Resolution High Range	0.001 dB from 8 to minus 50 dBm
UH Head Wavelength Range	930 to 1660 nm
UH Head Power Range	37 to minus 55 dBm
UH Head Uncertainty	plus or minus 4 percent plus or minus 3 nW
UH Head PDR Typical 0 to Minus 50 dBm	plus or minus 0.008 dB
Stabilization Time	0.3 ms
Sampling Rate Per Channel	up to 5208 samples/s
Wavelength Resolution Setting	0.01 nm
Detector Size GeX	2 mm
Detector Size InGaAs	1 mm
UH Input Aperture	9 mm
Module Size HxWxD	125 mm x 36 mm x 282 mm
Module Weight	0.64 kg
Operating Temperature	0 C to 40 C
Relative Humidity	0 percent to 80 percent non-condensing
Remote Control Via IQS 6	GPIB Ethernet RS-232

PARAMETER	VALUE
Wavelength range	800 to 1660 nm
Wavelength resolution	Setting: 0.01 nm
Humidity	0 percent to 80 percent non-condensing

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 C to 40 C
Operating Temperature	0 C to 40 C
Humidity	0 percent to 80 percent non-condensing
Relative Humidity	0 percent to 80 percent non-condensing
Remote Control Via IQS 6	GPIB Ethernet RS-232 Notes From EXFO IQS-1700/OHS-1700 Power Meter and Optical Head Series datasheet SPIQS1700/OHS1700.7AN at 1550 nm after 20-minute warm-up and offset nulling unless noted. Optical heads require IQS-1710/1720/1740 interface modules.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Performance Power Meter

Overview
The EXFO IQS-1700 isahigh-performance modular power meter interface for the IQS-600 platform, used with front-panel GeX or InGaAs detectors or OHS-1700 remote optical heads. OEM datasheet SPIQS1700/OHS1700 rates continuous sampling up to 5208 samples/s/channel, 0.3 ms stabilization, and detector options spanning roughly 25 to minus 50 dBm (GeX), 8 to minus 87 dBm (InGaAs), or 37 to minus 55 dBm (Ultra-High-Power head).

Applications
High-speed component and subsystem power acquisition, multichannel PDL and source-drift tracking with min/max mode, remote high-power EDFA and amplifier testing with OHS-1713-UH, and automated manufacturing test via GPIB Ethernet or RS-232 SCPI.

Key Features
One two or four independent detectors per module
Continuous sampling up to 5208 Hz per channel
300 us class stabilization time
Interchangeable calibrated OHS-1700 remote heads
Graph mode with simultaneous multichannel display

Technical Specifications

Technical Specifications

PARAMETER	VALUE
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GeX Uncertainty	plus or minus 5 percent plus or minus 10 nW
GeX Linearity 10 to Minus 30 dBm	plus or minus 0.015 dB
GeX Power Resolution High Range	0.001 dB from 25 to minus 20 dBm
InGaAs Wavelength Range	800 to 1700 nm
InGaAs Power Range	8 to minus 87 dBm
InGaAs Uncertainty	plus or minus 5 percent plus or minus 2 pW
InGaAs Linearity 5 to Minus 55 dBm	plus or minus 0.015 dB
InGaAs Power Resolution High Range	0.001 dB from 8 to minus 50 dBm
UH Head Wavelength Range	930 to 1660 nm
UH Head Power Range	37 to minus 55 dBm
UH Head Uncertainty	plus or minus 4 percent plus or minus 3 nW

UH Head PDR Typical 0 to Minus 50 dBm: plus or minus 0.008 dB

Specifications

PARAMETER	VALUE
Stabilization Time	0.3 ms
Sampling Rate Per Channel	up to 5208 samples/s
Wavelength Resolution Setting	0.01 nm
Detector Size GeX	2 mm
Detector Size InGaAs	1 mm
UH Input Aperture	9 mm
Module Size HxWxD	125 mm x 36 mm x 282 mm
Module Weight	0.64 kg
Operating Temperature	0 C to 40 C
Relative Humidity	0 percent to 80 percent non-condensing
Remote Control Via IQS 600	GPIB Ethernet RS-232

Notes
From EXFO IQS-1700/OHS-1700 Power Meter and Optical Head Series datasheet SPIQS1700/OHS1700.7AN at 1550 nm after 20-minute warm-up and offset nulling unless noted. Optical heads require IQS-1710/1720/1740 interface modules.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: **sales@aumictech.com** · +1 (484) 841-9341

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