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Data Sheet
August 13, 2026

EXFO

Exfo FLS-2100 Optical Light Source

Instrument Type: Benchtop Optical Light Source Alias: FLS-2100; FLS2100 Optical Light Source Model 23BLC wavelengths: 1310 +20/−30 nm and 1550 ±20 nm Model 34BLC wavelengths: 1550 ±20 nm and 1625 ±15 nm Alias: FLS-2100; FLS2100 Optical Light Source Model 23BLC wavelengths: 1310 +20/−30 nm and 1550 ±20 nm Model 34BLC wavelengths: 1550 ±20 nm and 1625 ±15 nm Model 23BLC spectral width rms: 2/5 nm typical

MODEL **Exfo FLS-2100**	CALIBRATION **Available on request**
CONDITION **Used**	STATUS **In stock**
RFQ / SKU **FLS-2100**	LISTING **https://aumictechlabs.com/products/fls-2100-2/**

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

NAICS 423690 · 811210 · 541380

This unit

The Exfo FLS-2100 Optical Light Source is a variable-output light source for optical testing applications including insertion loss, continuity, and fiber identification. It supports standard telecom wavelengths across LED and laser emitter types, with output power adjustable in 0.1 dB increments. The unit delivers stable, singlemode-compatible output through precision optical components and steady drive circuitry.Operation spans 0°C to 40°C with a 1-hour warm-up period for optimal stability. The FLS-2100 functions as a standalone instrument or integrates into 19-inch rack configurations, offering remote control via GPIB, Ethernet, and RS-232 interfaces when paired with compatible platforms such as the IQS-500 or IQS-600 Intelligent Test Systems.Technical Specifications Optical Characteristics Emitter types: Surface-Emitting LED and TEC-stabilized Fabry-Perot Laser sources Output power adjustment range: 10 dB for laser

sources; 6 dB for LED sources Power resolution: 0.1 dB increments Single-wavelength LED models: -21 dBm (850 nm), -17 dBm (1300 nm) Single-wavelength laser models: -17 dBm (1310 nm), -14 dBm (1550 nm) LED spectral width (850 nm model): 145 nm FWHM Environmental Operating temperature: 0°C to 40°C Storage temperature: -40°C to 70°C Warm-up time: 1 hour at constant operating temperature; 30 minutes if pre-stored at operating temperature Physical Dimensions: 21.8 × 11.1 × 28.5 cm (8.575 × 4.575 × 11.25 in)Key Features Variable output power with 0.1 dB control precision Dual emitter technology: LED and TEC laser options Precision optical coupling with low-loss efficiency Multimode and singlemode fiber compatibility Standalone or rack-mount deploymentTypical Applications Insertion loss measurement Fiber continuity testing Fiber identification Optical component and system characterization Network link validation in laboratory and field environmentsCompatibility & Integration Remote control via GPIB, Ethernet, and RS-232 Compatible with IQS-500 and IQS-600 Intelligent Test Systems 19-inch rack integration support

Features & description

From manufacturer datasheet

Features

• Single- or dual-wavelength LED or Fabry-Perot laser • TEC temperature control on FP laser models • Variable output power with 0.1 dB increments • Short-term stability to ±0.003 dB class (15 min, LED) • ORL sources include optical isolator • Modulation: 270 Hz, 1 kHz, 2 kHz (50 % duty cycle) • Remote control: GPIB and RS-232; LabVIEW/SCPI drivers

Applications

• Insertion loss of SM and MM passive components • Optical return loss measurements (ORL laser options) • Linearity checks of attenuators and power meters • Spectral attenuation and component characterization • Splicing and stability test stations • Polarization-dependent loss measurement setups

FLS2100 Characteristics / Specifications

PARAMETER	VALUE
Model	FLS-2100
Manufacturer	EXFO
Instrument Type	Benchtop Optical Light Source
Alias	FLS-2100; FLS2100 Optical Light Source
Laser variable power range	10 dB
LED variable power range	6 dB
Power step size	0.1 dB
Model 23BLC wavelengths	1310 +20/−30 nm and 1550 ±20 nm
Model 34BLC wavelengths	1550 ±20 nm and 1625 ±15 nm
Model 23BLC spectral width rms	2/5 nm typical
Model 34BLC spectral width rms	5/10 nm typical
Model 23BLC output power	≥ −1 dBm
Model 34BLC output power	≥ −4 dBm
Model 23BLC stability 15 min	±0.005 dB
Model 23BLC stability 8 h	±0.05 dB
Model 23ORL output power	≥ −3 dBm
Model 34ORL output power	≥ −6 dBm
LED 01C/D 850 nm spectral width FWHM	50 nm typical
LED 12C/D dual spectral width FWHM	50/145 nm typical
LED short term stability 15 min	±0.003 to ±0.005 dB
LED long term stability 8 h	±0.03 to ±0.05 dB
Modulation tones	270 Hz; 1 kHz; 2 kHz
SizeHxWxD	117 mm x 222 mm x 333 mm
Weight	1.2 kg
Operating temperature	0 °C to 40 °C

PARAMETER	VALUE
Storage temperature	−35 °C to 70 °C
Relative humidity	0 % to 80 % non-condensing
Remote interfaces	GPIB IEEE-488; RS-232
Warmup for stability	1 hour at constant temperature Notes Specs from EXFO FLS-2100 discontinued optical light source datasheet (SPFLS2100). Confirm source code (01C/01D/12C/12D/23BLC/34BLC/23ORL/34ORL) and fiber/connector codes on the faceplate.
Modulation	270 Hz, 1 kHz, 2 kHz (50 % duty cycle)
Remote control	GPIB and RS-232; LabVIEW/SCPI drivers
Optical Return Loss	measurements (ORL laser options) - Linearity checks of attenuators and power meters - Spectral attenuation and component characterization - Splicing and stability test stations - Polarization-dependent loss measurement setups
Attenuation	and component characterization - Splicing and stability test stations - Polarization-dependent loss measurement setups
Humidity	0 % to 80 % non-condensing
Return loss	measurements (ORL laser options) - Linearity checks of attenuators and power meters - Spectral attenuation and component characterization - Splicing and stability test stations - Polarization-dependent loss measurement setups

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	−35 °C to 70 °C
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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.

Specifications

Specifications

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Notes
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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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