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## Test & Measurement

- > sales
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## Complimentary Reference Material

This PDF has been made available as a complimentary service for you to assist in evaluating this model for your testing requirements.

TMG offers a wide range of test equipment solutions, from renting short to long term, buying refurbished and purchasing new. Financing options, such as Financial Rental, and Leasing are also available on application.

TMG will assist if you are unsure whether this model will suit your requirements.

Call TMG if you need to organise repair and/or calibrate your unit.

If you click on the "Click-to-Call" logo below, you can call us for FREE!

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Product Lifecycle Management System

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# 600

NETWORK TESTING

## LIGHT SOURCE

FLS-600



- Up to three singlemode wavelengths (1310, 1550, and 1490 or 1625 nm) on a single port, or four wavelengths (850/1300 nm and 1310/1550 nm) on two ports
- Rechargeable batteries
- Visual fault locator (VFL) option for quick and easy troubleshooting
- Three-year warranty and recommended calibration interval, for low cost of ownership
- Ergonomic, eye-catching handheld package



Part of EXFO's 600 handheld series, which includes the FPM-600 Power Meter and the FOT-600 Optical Loss Test Set, the FLS-600 Light Source is designed for first-class versatility. Choose among laser, LED and VCSEL models, as well as various wavelength options. What's more, you can save time by building a list of your "favorite" wavelengths and only sweeping through these wavelengths when testing.

### Error-Free, Time-Saving Test Features: Automatic Wavelength Switching and Distant Referencing

NEW

Using the FLS-600 in Auto-Switching mode allows you to automatically toggle between available wavelengths. When using this source with a compatible power meter (FPM/FOT-600), the latter recognizes the wavelength in use and switches to the proper calibration parameter.

Signal encrypting can also give the receiving end information on the power to be used as reference, helping ensure efficient referencing, even when the two units are far apart.

### FTTx Ready

EXFO's FLS-600 allows for the testing of passive optical networks (PONs) at 1310 nm, 1490 nm and 1550 nm, the three wavelengths recommended by the ITU-T (G.983.3) for PONs.

### Rugged and Versatile

Like all EXFO portable instruments, the FLS-600 is built for top ruggedness, perfect for the harshest test conditions. It also features a keypad/LCD backlight, for easy operation in darker environments.



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Telecommunications Test and Measurement

**EXFO**  
EXPERTISE REACHING OUT

# Light Source

## SPECIFICATIONS<sup>1</sup>

Model	12D	23BL	234BL	235BL	01-VCL
Central wavelength (nm)	850 ± 25 1300 +50/-10	1310 ± 20 1550 ± 20	1310 ± 20 1550 ± 20 1625 ± 15	1310 ± 20 1490 ± 10 1550 ± 20	850 +20/-10
Spectral width <sup>2</sup> (nm)	50/135	≤ 5	≤ 5	≤ 5	≤ 1
Output power (dBm)	≥ -20/≥ -20 (62.5/125 μm)	≥ 1/≥ 1	≥ 1/≥ -3/≥ -5	≥ 1/≥ -4.5/≥ -3	≥ -3 (50/125 μm)
Power stability (dB) <sup>3</sup>	15 min 8 h	±0.05 ±0.1	±0.03 ±0.1	±0.03 ±0.1	±0.1 ±0.25
Auto-switching	Yes	Yes	Yes	Yes	Yes
Tone generation	270 Hz, 1 kHz, 2 kHz	270 Hz, 1 kHz, 2 kHz	270 Hz, 1 kHz, 2 kHz	270 Hz, 1 kHz, 2 kHz	270 Hz, 1 kHz, 2 kHz
Battery life (hours) (typical in Auto mode)	50	50	50	50	60
Warranty and recommended calibration interval (years)	3	3	3	3	3

### VFL<sup>4</sup>

Emitter type	Laser
Wavelength (nm)	650
Output power (dBm)	3

### General Specifications

Size (H x W x D)	190 mm x 100 mm x 62 mm	(7 1/2 in x 4 in x 2 1/2 in)
Weight	0.48 kg	(1.1 lb)
Temperature	operating storage	-10 °C to 50 °C (14 °F to 122 °F) -40 °C to 70 °C (-40 °F to 158 °F)
Relative humidity	0 % to 95 % non-condensing	

### Standard Accessories

User guide, Certificate of Calibration, instrument stickers in six languages, AC adapter/charger, lithium ion battery, shoulder strap, hard carrying case.

### Safety

21 CFR 1040.10 and IEC 60825-1:1993+A1:1997+A2:2001:  
CLASS 1M LASER PRODUCT  
CLASS 3R LASER PRODUCT FOR VFL OPTION



### Notes

1. Guaranteed unless otherwise specified. All specifications valid at 23 °C ± 1 °C, with an FC connector.
2. rms for FP lasers and VCSEL; and -3 dB width for LEDs (typical values for LEDs and VCSEL).
3. After a 15-minute warm-up period, and using an APC connector on the power meter (except for multimode sources, for which a PC connector is used). Expressed as ± half the difference between the maximum and minimum values measured during the period. Typical values for VCL model.
4. Typical values in 62.5/125 μm fiber.

## ORDERING INFORMATION

### FLS-600-XX-XX-XX

#### Model

- FLS-600-01-VCL = 850 nm VCSEL 50/125 μm
- FLS-600-12D = 850/1300 nm LED 62.5/125 μm
- FLS-600-23BL = 1310/1550 nm laser 9/125 μm
- FLS-600-234BL = 1310/1550/1625 nm laser 9/125 μm
- FLS-600-235BL = 1310/1490/1550 nm laser 9/125 μm
- FLS-600-12D-23BL = 850/1300 nm LED source 62.5/125 μm, 1310/1550 nm laser 9/125 μm

Example: FLS-600-234BL-EI-EUI-89-VFL

#### Note

1. Singlemode only.

#### Connector\*

- EA-EUI-28 = APC/DIN 47256<sup>1</sup>
- EA-EUI-89 = APC/FC narrow key<sup>1</sup>
- EA-EUI-91 = APC/SC<sup>1</sup>
- EA-EUI-95 = APC/E-2000<sup>1</sup>
- EI-EUI-28 = UPC/DIN 47256
- EI-EUI-76 = UPC/HMS-10/AG
- EI-EUI-89 = UPC/FC narrow key
- EI-EUI-90 = UPC/ST
- EI-EUI-91 = UPC/SC
- EI-EUI-95 = UPC/E-2000

#### Visual Fault Locator

- 00 = Without visual fault locator
- VFL = With visual fault locator (universal 2.5 mm connector)

\* EXFO Universal Interface is protected by US patent 6,612,750.

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