# **FLS-600**

# **LIGHT SOURCE**



Part of EXFO's 600 handheld series, the FLS-600 Light Source is designed for first-class versatility—it offers laser and LED models, as well as various wavelength options.

## **KEY FEATURES**

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

Three-year warranty for low cost of ownership

Error-free, time-saving test features

Controlled multimode launching output

Compliant with the IEC 61280-4-1 standard—a first in the industry\*

\* Loss measurements performed on 50/125 µm multimode fiber using an external conditioner are in compliance with the encircled flux requirements for launch conditions of the IEC 61280-4-1 standard.



Part of EXFO's 600 handheld series, the FLS-600 Light Source is designed for first-class versatility. Choose among laser, LED 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.

### **Automatic Wavelength Switching**

Using the FLS-600 in Auto-Switching mode allows 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.

### **Distant Referencing**

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 ruggedness, perfect for the harshest test conditions. It also features a keypad/LCD backlight, for easy operation in darker environments.

SPECIFICATIONS a				
Model	12D	23BL	234BL	235BL
Central wavelength (nm)	850 ± 25 1300 +50/-10	1310 ± 20 1550 ± 20	1310 ± 20 1550 ± 20 1625 ± 15	1310 ± 20 1490 ± 10 1550 ± 20
Spectral width <sup>b</sup> (nm)	50/135	≤5	≤5	≤5
Output power (dBm)	≥-20/≥-20 (62.5/125 µm)	≥1/≥1	≥1/≥-3/≥-5	≥1/≥-4.5/≥-3
Power stability ° (dB) 15 min 8 h	±0.05 ±0.1	±0.03 ±0.1	±0.03 ±0.1	±0.03 ±0.1
Auto-switching	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
Battery life (hours) (typical in Auto mode)	50	50	50	50
Warranty (years)	3	3	3	3

GENERAL SPECIFICATIONS <sup>a</sup>		
Size (H x W x D)	190 mm x 100 mm x 62 mm	(7 <sup>1</sup> / <sub>2</sub> in x 4 in x 2 <sup>1</sup> / <sub>2</sub> in)
Weight	0.48 kg	(1.1 lb)
Temperature operating storage	−10 °C to 50 °C −40 °C to 70 °C	(14 °F to 122 °F) (-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, carrying case.

#### **SAFETY**



Complies with 21 CFR 1040.10 except for deviation pursuant to Laser Notice No.50, dated June 24, 2007.

#### NOTES

- a. Guaranteed unless otherwise specified. All specifications valid at 23 °C  $\pm$  1 °C, with an FC connector.
- b. rms for FP lasers; and -3 dB width for LEDs (typical values for LEDs).
- c. 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.



#### ORDERING INFORMATION FLS-60X-XX ■ Connector\* Model ■ EI-EUI-28 = UPC/DIN 47256 FLS-600-12D = 850/1300 nm LED source 62.5/125 $\mu m$ EI-EUI-76 = UPC/HMS-10/AG FLS-600-23BL = 1310/1550 nm laser $9/125 \mu m$ EI-EUI-89 = UPC/FC narrow key FLS-600-234BL = $1310/1550/1625 \text{ nm laser } 9/125 \text{ } \mu\text{m}$ FLS-600-235BL = 1310/1490/1550 nm laser 9/125 $\stackrel{\cdot}{\mu}$ m EI-EUI-90 = UPC/STEI-EUI-91 = UPC/SCFLS-600-12D-23BL = 850/1300 nm LED source 62.5/125 $\mu$ m, EI-EUI-95 = UPC/E-20001310/1550 nm laser 9/125 μm EI-EUI-98 = UPC/LC EA-EUI-28 = APC/DIN 47256 a EA-EUI-89 = APC/FC narrow key <sup>a</sup> $EA-EUI-91 = APC/SC^{a}$ EA-EUI-95 = APC/E-2000 a EA-EUI-98 = APC/LC a Example: FLS-600-234BL-EI-EUI-89

#### NOTE

a. EA-EUI not available for -12D port.

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

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