

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 Recognition and Distant Referencing

The FLS-600 transmits with a wavelength-identification digital encrypted protocol, so that any compatible unit—another 600 series unit, a 300 series unit, the FOT-930 MaxTester or the FTB-3930 Multitest Module—can automatically recognize the wavelength in use and switch to the proper calibration parameters, providing for error-free testing.

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.



Light Source

SPECIFICATIONS¹

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 ² (nm)	50/135	≤ 5	≤ 5	≤ 5	≤ 1
Output power (dBm)	≥ -18/≥ -18 (62.5/125 μm)	≥ 1/≥ 1	≥ 1/≥ -3/≥ -5	≥ 1/≥ -4.5/≥ -3	≥ -3 (50/125 μm)
Power stability (dB) ³	15 min ± 0.05 8 hr ± 0.1	± 0.03 ± 0.1	± 0.03 ± 0.1	± 0.03 ± 0.1	± 0.1 ± 0.25
Automatic wavelength recognition	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

VFL⁴

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

General Specifications

Size (H x W x D)	19.0 cm x 10.0 cm x 6.2 cm	(7 1/2 in x 4 in x 2 1/2 in)
Weight	0.48 kg	(1.1 lb)
Temperature	operating: -10 °C to 50 °C storage: -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, 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.

Connector⁵

- EA-EUI-28 = APC/DIN 47256¹
- EA-EUI-89 = APC/FC narrow key¹
- EA-EUI-91 = APC/SC¹
- EA-EUI-95 = APC/E-2000¹
- 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.

Corporate Headquarters > 400 Godin Avenue, Vanier (Quebec) G1M 2K2 CANADA | Tel.: 1 418 683-0211 | Fax: 1 418 683-2170 | info@exfo.com

Toll-free: 1 800 663-3936 (USA and Canada) | www.exfo.com

EXFO America	4275 Kellway Circle, Suite 122	Addison, TX 75001 USA	Tel.: 1 800 663-3936	Fax: 1 972 836-0164
EXFO Europe	Le Dynasteur, 10/12 rue Andras Beck	92366 Meudon la Forêt Cedex FRANCE	Tel.: +33.1.40.83.85.85	Fax: +33.1.40.83.04.42
EXFO Asia-Pacific	151 Chin Swee Road, #03-29 Manhattan House	SINGAPORE 169876	Tel.: +65 6333 8241	Fax: +65 6333 8242
EXFO China	Beijing New Century Hotel Office Tower, Room 1754-1755 No. 6 Southern Capital Gym Road	Beijing 100044 P. R. CHINA	Tel.: +86 (10) 6849 2738	Fax: +86 (10) 6849 2662

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