FLS-300 Light Source

NETWORK TESTING OPTICAL

FTTx
Test Solutions

FROST & SULLIVAN

2011 BEST PRACTICES AWARD

GLOBAL PORTABLE FIBER OPTIC
TEST EQUIPMENT MARKET
SHARE LEADERSHIP AWARD

The FLS-300 Light Source is part of EXFO's new line of handheld units, which includes the FPM-300 Power Meter and the FOT-300 Optical Loss Test Set.

KEY FEATURES

Multifunctional light source: up to three singlemode wavelengths on a single port, or four wavelengths (two multimode, and two singlemode) on two ports

Power autonomy of 120 hours

Highest output power in the industry

Three-year warranty and recommended calibration interval, for dramatically reduced cost of ownership

Ergonomic, eye-catching handheld package

EXFO

AUTO-WAVELENGTH RECOGNITION

The FLS-300 Light Source can transmit with a wavelength-identification digital encrypted protocol, so that any compatible unit– the FPM-300 Power Meter and the FOT-300 Optical Loss Test Set–can automatically use the proper calibration parameters. This feature reduces the need for communication between the two technicians and decreases the potential for error.
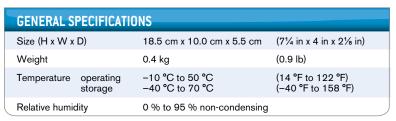
DISTANT REFERENCING

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-300 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.

SPECIFICATIONS [a]

Model [b]		23BL	234BL	235BL	12D
Central wavelength (nm)		1310 ± 20	1310 ± 20	1310 ± 20	850 ± 25
		1550 ± 20	1550 ± 20	1490 ± 10	1300 +50/−20
			1625 ± 15	1550 ± 20	
Spectral width [c] (nm)		≤5	≤5	≤5	50/135
Output power (dBm)		≥1/≥1	≥1/≥−3/≥−5	≥1/≥−4.5/≥−3	≥−20/≥−20 (62.5/125 μm)
Power stability [d] (dB)	8 hours	±0.10	±0.10	±0.10	±0.10
Battery life [e] (hours)		120	100	120	120
Enables automatic wavelength recognition		Yes	Yes	Yes	Yes
Tone generation (Hz)		270, 1 k, 2 k	270, 1 k, 2 k	270, 1 k, 2 k	270, 1 k, 2 k
Warranty and recommended calibration interval (years)		3	3	3	3

GENERAL SPECIFICATIONS

Size (H x W x D)		18.5 cm x 10.0 cm x 5.5 cm	(7¼ in x 4 in x 2⅛ in)
Weight		0.4 kg	(0.9 lb)
Temperature	operating	−10 °C to 50 °C	(14 °F to 122 °F)
	storage	−40 °C to 70 °C	(−40 °F to 158 °F)
Relative humidity		0 % to 95 % non-condensing	

LASER SAFETY

CLASS 1
LASER PRODUCT

STANDARD ACCESSORIES

User guide, Certificate of Calibration, instrument stickers in six languages, AC adapter, three AA batteries, wrist strap.

Notes

a. Guaranteed unless otherwise specified.

b. All specifications valid at 23 °C ± 1 °C, with an FC connector.

c. rms for lasers and −3 dB width for LEDs; typical values for LEDs.

d. After 15 minutes warmup; expressed as ± half the difference between the maximum and minimum values measured during the period, with an APC connector on the power meter.

e. Typical autonomy in Auto mode.

ORDERING INFORMATION

FLS-300-XX-XX

Model
FLS-300-12D = 850/1300 nm LED 62.5/125 μm
FLS-300-23BL = 1310/1550 nm laser 9/125 μm a
FLS-300-234BL = 1310/1550/1625 nm laser 9/125 μm
FLS-300-235BL = 1310/1490/1550 nm laser 9/125 μm [a]
FLS-300-12D-23BL = 850/1300 nm LED 62.5/125 μm, 1310/1550 nm laser 9/125 μm

Example: FLS-300-234BL-EI-EUI-89

Connector
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
EI-EUI-98 = UPC/LC
EA-EUI-28 = APC/DIN 47256 [a]
EA-EUI-89 = APC/FC narrow key [a]
EA-EUI-91 = APC/SC
EA-EUI-95 = APC/E-2000 [a]
EA-EUI-98 = APC/LC

Note

a. EA-EUI only available on models 23BL, 234BL and 235BL.

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