ELS-100
Light Source

EPM-100
Power Meter

NETWORK TESTING–OPTICAL

EXFO ELS-100 Specs
Provided by www.AAATesters.com

- Cost-effective, rugged handheld instruments designed for reliable performance
- Easy-to-use interface for error-free testing
- Interchangeable connectors, for first-class flexibility
- Particularly suited to the testing and troubleshooting of LAN/WAN fiber-optic networks

Introducing EXFO's FiberBasix testers, a series of handheld instruments designed to meet your basic day-to-day test requirements, while helping you stay within budget. These worry-free, straightforward solutions provide the tools you need to accurately measure signal attenuation during fiber-optic cable installation.

The FiberBasix 100 Series includes two highly convenient instruments:

- The **ELS-100 Light Source**, combines four wavelengths for singlemode and multimode testing
- The **EPM-100 Power Meter**, which offers high accuracy and referencing capabilities

FROST & SULLIVAN
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GLOBAL PORTABLE FIBER OPTIC TEST EQUIPMENT MARKET SHARE LEADERSHIP AWARD

FTTx Test Solutions

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ELS-100 Light Source: Multiwavelength Capability

EXFO's ELS-100 Light Source provides excellent stability and high measurement accuracy. Its configuration includes two singlemode wavelengths (1310 and 1550 nm) and two multimode wavelengths (850 and 1300 nm) for maximum versatility. For testing all fiber types. It is the perfect complement to the FiberBasix EPM-100 Power Meter when it comes to measuring attenuation on fiber-optic links.

The ELS-100 Light Source

EPM-100 Power Meter: High Accuracy and Easy Referencing

The EPM-100 Power Meter provides highly accurate power measurements, as well as reference value setting capabilities. What's more, this convenient unit requires no offset nulling, and it offers power autonomy of 300 hours, for reliable, long-lasting performance in the field.

The EPM-100 Power Meter

ELS-100 SPECIFICATIONS [a]

Model [b]	23BL	12D
Central wavelength (nm)	1310 ± 20 1550 ± 20	850 ± 25 1300 +50/–10
Spectral width [c] (nm)	≤ 5	50/135
Output power (dBm)	≥ 1/≥ 1	≥ –20/≥ –20 (62.5/125 µm)
Power stability [d] (dB)		
8 hours	± 0.10	± 0.10
Battery life (hours) (typical)	50	55
Warranty and recommended calibration interval (years)	1	1

EPM-100 SPECIFICATIONS [a]

Model [e]	EPM-102
Power meter port	**Ge**
Power range [f] (dBm)	10 to –60
Range displayed (dBm)	Down to –65
Number of calibrated wavelengths [g]	6
Power uncertainty [h]	±5 % ± 1 nW
Resolution (dB)	0.01 [i]
Automatic offset nulling	Yes
Warm-up time [f] (s)	0
Display units	dB/dBm/W
Screen refresh rate (Hz)	3
Battery life (hours) (typical)	> 300
Warranty and recommended calibration interval (years)	1

Notes

a. Guaranteed unless otherwise specified.
b. All specifications valid at 23 °C ± 1 °C, with an FC connector.
c. rms for lasers and FWHM for LEDs; typical values for LEDs.
d. After 15 minutes warm-up; expressed as ± half the difference between the maximum and minimum values measured during the period, with an APC connector on the power meter.
e. All specifications valid at 1550 nm and 23 °C ± 1 °C, with an FC connector.
f. In CW mode, sensitivity defined as 6x rms noise level.
g. Wavelengths: 850 nmm, 1300 nm, 1310 nm, 1490 nm, 1550 nm and 1625 nm.
h. Traceable to national standards.
i. From 10 dBm to –50 dBm.

GENERAL SPECIFICATIONS

Size (H x W x D)	185 mm x 100 mm x 55 mm	(7 1/4 in x 4 in x 2 1/8 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	

STANDARD ACCESSORIES

User guide, Certificate of Calibration, instrument stickers in four languages, AC adapter, EUI-XX (ELS), connector adapter (FOA-XX) (EPM), three AA batteries, wrist strap.

SAFETY

21 CFR 1040.10 and IEC 60825-1:1993+A1:1997+A2:2001:
ELS-500: CLASS 1 LASER PRODUCT

ORDERING INFORMATION

ELS-100-XX-XX

Model
ELS-100-12D-23BL = 850/1300 nm LED (62.5/125 mm), 1310/1550 nm laser (9/125 mm)

Example: ELS-100-12D-23BL-EI-EUI-89

Connector [a]
EI-EUI-89 = UPC/FC narrow key [b]
EI-EUI-90 = UPC/ST [b]
EI-EUI-91 = UPC/SC [b]
EI-EUI-95 = UPC/E-2000 [b]

EPM-10X-XX

Model
EPM-102 = Ge detector

Example: EPM-102-FOA-22

Connector Adapter [a]
FOA-22 = FC (PC/SPC/UPC/APC), NEC-D3
FOA-32 = ST (PC/SPC/UPC)
FOA-54 = SC
FOA-96B = E-2000
FOA-98 = LC

TEST KIT ORDERING INFORMATION

FBK-103-XX Contractor Test Kit
- EPM-102-XX Power Meter, Ge detector
- ELS-100-12D-23BL-XX Light Source, 850/1300 nm LED and 1310/1550 nm laser (2 ports)
- One TJ-BXX-XX test jumper
- One TJ-DXX-XX test jumper
- Carrying case GP-10-061

Notes

a. Other connectors and connector adapters available. Consult our website at www.EXFO.com/accessories for details.

b. Interchangeable connection.

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