FiberBasix 50 Handheld Testers

SERIES COMPRISING THE ELS-50 LIGHT SOURCE AND EPM-50 POWER METER



Delivering simple, accurate measurement of signal attenuation during fiber-optic cable installation.

KEY FEATURES

Easy-to-use interface for error-free testing

Interchangeable connectors, for first-class flexibility

Cost-effective, rugged and highly reliable

Ideal for testing and troubleshooting optical premises networks

Available as stand-alone units or in all-in-one test kits including all required accessories (adapters, carrying case, etc.)

Five test kits designed for specific users/testing needs: LAN, outside plant, contractors, FTTH and CATV $\,$

COMPLEMENTARY PRODUCTS AND OPTIONS



Fiber Inspector Probe FIP-400



Visual Fault Locator FLS-240

APPLICATIONS

Link-loss characterization (ELS-50 Light Source)

Power measurement (EPM-50 Power Meter)



GG Worry-Free, Simple and Good to Go 55

EXFO's FiberBasix 50 series meets your basic day-to-day test requirements while helping you stay within budget. These worryfree, straightforward handheld testers enable accurate measurement of signal attenuation during fiber-optic cable installation. The FiberBasix 50 series includes two highly convenient instruments:

- > The ELS-50 Light Source, which offers up to three wavelengths for singlemode testing and two wavelengths for multimode testing
- > The EPM-50 Power Meter, which offers high accuracy and referencing capabilities

ELS-50 LIGHT SOURCE: MULTIWAVELENGTH CAPABILITY

EXFO's ELS-50 Light Source provides excellent stability and high measurement accuracy for up to three singlemode wavelengths (1310, 1490 and 1550 nm) or two multimode wavelengths (850 and 1300 nm). It is the perfect complement to the FiberBasix 50 EPM-50 Power Meter when it comes to measuring attenuation on fiber-optic links.

EPM-50 POWER METER: HIGH ACCURACY AND EASY REFERENCING

The EPM-50 Power Meter provides highly accurate power measurements, as well as reference value setting capabilities. It offers power autonomy of 300 hours, for reliable, long-lasting performance in the field.





ELS-50 SPECIFICATIONS



1 Rubber boot protector

2 Wrist strap

3 Cap protector

4 Stand

SPECIFICATIONS ^a				
MODEL	23BL	235BL	12C	
Central wavelength (nm) $^{\rm b}$	1310 ± 20 1550 ± 20	1310 ± 20 1490 ± 10 1550 ± 20	850 ± 25 1300 +50/-10	
Spectral width (nm) ^{b, c}	≤5	≤5	≥40/120	
Output power (dBm)	≥-5	≥-5	≥−24 (50/125 μm)	
Power stability (dB) ^{b, d}	±0.10	±0.10	±0.10	
Battery life (hours) ^b	60	60	45	
Tone generation (Hz)	270, 1 k, 2 k	270, 1 k, 2 k	270, 1 k, 2 k	
Warranty (year)	1	1	1	

GENERAL SPECIFICATIONS	
Size (H x W x D)	189 mm x 78 mm x 37 mm (7 7 / ₁₆ in x 3 1 / ₁₆ in x 1 7 / ₁₆ in)
Weight	0.4 kg (0.9 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

Soft pouch, LSA-89 FC connector adapter, quick reference sticker in five languages, Certificate of Compliance, three AA batteries, rubber boot protector

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LSA-89 (FC connector adapter for ELS-50 Light Source)

LSA-90 (ST connector adapter for ELS-50 Light Source)

LSA-91 (SC connector adapter for ELS-50 Light Source)

Manual (user guide)

GP-10-081 (soft pouch)

GP-2124 (rubber protective boot)

GP-2131 (pack of 10 replacement ceramic sleeves for ELS-50)

SAFETY



21 CFR 1040.10 AND IEC 60825-1:2007 CLASS 1 LASER PRODUCT

Notes

a. All specifications valid at 23 °C \pm 3 °C, with an FC/UPC connector.

b. Typical.

c. Rms for lasers and -3 dB width for LEDs.

d. After 15 minutes warmup; expressed as ± half the difference between the maximum and minimum values measured over 8 hours.



EPM-50 SPECIFICATIONS



1 Rubber boot protector

2 Wrist strap

3 Cap protector

4 Stand

5 Soft pouch

6 Connector adapter

O Carrying case (supplied with any all-in-one test kit)

SPECIFICATIONS®				
MODEL	EPM-53	EPM-53X		
Power meter port	InGaAs	InGaAsX		
Power range ^b (dBm)	10 to -60	26 to -50		
Number of calibrated wavelengths $^{\rm c}$	5	5		
Power uncertainty ^d	±5 %	±5 %		
Resolution (dB)	0.01	0.01		
Display units	dB/dBm/W	dB/dBm/W		
Tone detection (Hz)	270, 1 k, 2 k	270, 1 k, 2 k		
Battery life (hours) ^d	>300	>300		
Warranty (year)	1	1		

GENERAL SPEC	FICATIONS	
Size (H x W x D)		189 mm x 78 mm x 37 mm (7 $^{7}\!\!\!/_{16}$ in x 3 $^{1}\!\!/_{16}$ in x 1 $^{7}\!\!/_{16}$ 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

Soft pouch, PMA-22 FC connector adapter, quick reference sticker in five languages, Certificate of Calibration, Certificate of Compliance, three AA batteries

OPTIONAL ACCESSORIES	
PMA-22 (FC connector adapter for EPM-50 power meter)	Manual (user guide)
PMA-32 (ST connector adapter for EPM-50 power meter)	GP-10-081 (soft pouch)
PMA-54 (SC connector adapter for EPM-50 power meter)	GP-2124 (rubber boot)

Notes

a. All specifications valid at 23 °C \pm 3 °C, with an FC/UPC connector.

b. In CW mode. c. Wavelengths: 850 nm, 1300 nm, 1310 nm, 1490 nm, 1550 nm.
d. Typical.





ORDERING INFORMATION	
ELS-50-23BL = 1310/1550 nm laser (9/125 μm) ELS-50-235BL = 1310/1490/1550 nm laser (9/125 μm) ELS-50-12C = 850/1300 nm LED (50/125 μm) Example: ELS-50-12C-LSA-89-RB	
EPM-53 = InGaAs detector 00 = With rubber boot protector EPM-53X = High-power InGaAs detector RB = Without rubber boot protector Example: EPM-53X-PMA-22-RB PMA-22 = FC adapter for power meter	
TEST KIT ORDERING INFORMATION FBK-51 LAN Test Kit EPM-53-RB Power Meter, InGaAs detector, universal 2.5 mm push-pull adapter and FC adapter, rubber boot, soft pouch > ELS-50-12C-RB Light Source, 850/1300 nm LED (one port), FC adapter, rubber boot, soft pouch > Carrying case (GP-10-061) > Etht alght source adapters: one DAA-54 (SC) and one PMA-32 (ST) FBK-52 Outside Plant Test KI > PPM-53-RB Power Meter, InGaAs detector, Universal 2.5 mm push-pull adapter and FC adapter, rubber boot, soft pouch > Carrying case (GP-10-061) Path alght source, 1310/1550 nm laser (one port), FC adapter, rubber boot, soft pouch > Carrying case (GP-10-061) Path alght source adapters: one PMA-54 (SC) and one PMA-32 (ST) > Extra light source adapters: one PAM-54 (SC) and one PMA-32 (ST) > Extra Soft Source, 1310/1550 nm laser (one port), FC adapter, rubber boot, soft pouch > ELS-50-23BL-RB Light Source, 850/1300 nm LED (one port), FC adapter, rubber boot, soft pouch > ELS-50-23BL-RB Light Source, 850/1300 nm LED (one port), FC adapter, rubber boot, soft pouch > ELS-50-23BL-RB Light Source, 1310/1490/1550 nm laser (one port), FC adapter, rubber boot, soft pouch > ELS-50-23BL-RB Light Source, 1310/1490/1550 nm laser (one port), FC adapter, rubber boot, soft pouch > ELS-50-23BL-RB Light Source, 1310/1490/1550 nm laser (one port), FC adapter, rubber boot, soft pouch > ELS-50-2	

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EXFO is certified ISO 9001 and attests to the quality of these products. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. EXFO has made every effort to ensure that the information contained in this specification sheet is accurate. However, we accept no responsibility for any errors or omissions, and we reserve the right to modify design, characteristics and products at any time without obligation. Units of measurement in this document conform to SI standards and practices. In addition, all of EXFO's manufactured products are compliant with the European Union's WEEE directive. For more information, please visit www.EXFO.com/recycle. Contact EXFO for prices and availability or to obtain the phone number of your local EXFO distributor.

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In case of discrepancy, the Web version takes precedence over any printed literature.



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