

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

APPLICATIONS

- Link-loss characterization (ELS-50 Light Source)
- Power measurement (EPM-50 Power Meter)

SPEC SHEET

“Worry-Free, Simple and Good to Go”

EXFO's FiberBasix 50 series meets your basic day-to-day test requirements while helping you stay within budget. These worry-free, 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	12C
Central wavelength (nm) ^b	1310 ± 20 1550 ± 20	850 ± 25 1300 +50/-20
Spectral width (nm) ^{b, c}	≤5	≥40/120
Output power (dBm)	≥-5	≥-24 (50/125 μm)
Power stability (dB) ^{b, d}	±0.10	±0.10
Battery life (hours) ^b	60	45
Tone generation (Hz)	270, 1 k, 2 k	270, 1 k, 2 k
Warranty (year)	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: -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, LSA-89 FC connector adapter, quick reference sticker in five languages, Certificate of Compliance, three AA batteries, rubber boot protector

SAFETY



Notes

- a. All specifications valid at 23 °C ± 3 °C, with an FC/UPC connector.
- b. Typical.
- c. Rms for lasers and -3dB 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

SPECIFICATIONS ^a

Model	EPM-53	EPM-53X
Power meter port	InGaAs	InGaAsX
Power range (dBm) ^b	10 to -60	26 to -50
Number of calibrated wavelengths ^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 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	-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

Notes

- a. All specifications valid at 23 °C ± 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.