

Multimode Power Meter and Light Source Kit (OPTMKIT-2)

V.3.3

Description

The OPTMKIT-2 test kit combines the OPT-EPM-50 optical power meter and OPT-ELS-50 light source and provides a cost-effective solution for testing multimode fibre networks.

The OPT-EPM-50 power meter offers reference setting function and readings in dB, dBm and Watts. Added to this are an InGaAs detector and tone recognition for fibre identification. The battery has the capability to support up to 300 hours use.

With excellent power stability the OPT-ELS-50 light source gives the end user the confidence that they will have reliable loss measurements time and again. The unit also offers tone generation for fibre finding and up to 60 hours of battery life.

To complete your testing portfolio, the OPTMKIT-2 also comes complete with high quality test leads in both 50µm & 62.5µm, as well as associated fibre mandrels, enabling testing which meets the current standards (ISO11801 3rd Edition, IEC61300 and TIA/EIA568-C.3).

Both units come with SC adapters as standard. ST and FC interchangeable adapters are available allowing for increased flexibility.

Features/Benefits

- ▶ **Cost effective, rugged handheld instruments designed for reliable performance**
- ▶ **Reference function for direct loss measurements**
- ▶ **Tone generation and recognition**
- ▶ **Interchangeable connectors for flexibility**
- ▶ **Complete test kit with test leads and mandrels**
- ▶ **Individual cases for each tester, plus a case for accessories**

Standard Accessories

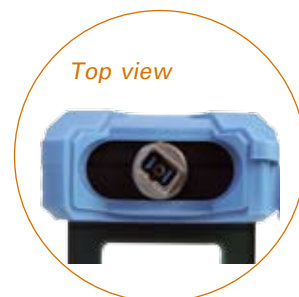
- ▶ **2x SC-SC 62.5/125 1.5m Simplex Test Lead**
- ▶ **2x SC-SC 50/125 1.5m Simplex Test Lead**
- ▶ **1x 62.5/125 1.5 mandrel wrap**
- ▶ **1x 50/125 mandrel wrap**
- ▶ **2 Carrying Cases**
- ▶ **Batteries**
- ▶ **User-manual is available to download on our website**



Front view



Top view



Back view



Side view



Interchangeable adaptors



Mandrel wraps



+44 (0) 870 127 3330



+44 (0) 870 127 3331



sales@fibrefab.com



www.fibrefab.com

Multimode Power Meter and Light Source Kit (OPTMKIT-2)

V.3.3

Technical Specification

SPECIFICATION ^a	
MODEL	OPT-ELS-50
Central wavelength (nm) ^b	850 ± 25 1300 + 50/-10
Spectral width (nm) ^{b,c}	≥40/120
Output power (dBm)	≥-24/ ≥-21 (50/125 μm)
Power stability (dB) ^{b,d}	±0.10
Battery life (hours) ^b	60
Warranty (year)	1
Tone generation (Hz)	270, 1k, 2k
Size(HxWxD)	188mm x 83 mm x 35 mm (7 ^{7/16} in x 3 ^{5/16} in x 1 ^{7/16} in)
Weight	0.4 kg (0.9lb)
Temperature	operating -10°C to 50°C (14°F to 122°F)
Relative humidity	0% to 95% non-condensing

SAFETY
21 CRF 1040.10 and IEC 60825-1:2007 CLASS 1 LASER PRODUCT

Notes :

- a.** All specifications valid at 23°C ± 3°C, with an FC/UPC connector
- b.** Typical
- c.** rms for lasers and -3 dB width for LEDs
- d.** After 15 minutes warm up; expressed as ± half the difference between the maximum and minimum values measured over 8 hours.

SPECIFICATION ^a	
MODEL	OPT-EPM-50
Power meter port	InGaAs
Power range ^b (dBm)	10 to-60
Number of calibrated wave-lengths ^c	5
Power uncertainty ^d	± 5 %
Resolution (dB)	0.01
Display units	dB/dBm/W
Tone detection (Hz)	270,1k, 2k
Battery life (hours) ^d	>300
Warranty (year)	1
Size (HxWxD)	188 mm x 83 mm x 35 mm (7 ^{7/16} in x 3 ^{5/16} 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

Notes :

- a.** All specifications valid at 23°C ± 3°C, with an FC/UPC connector
- b.** In CW mode
- c.** Wavelength: 850 nm, 1300 nm, 1310 nm, 1490 nm 1550 nm
- d.** Typical

Ordering information

DESCRIPTION	PART NO.
Optronics Multimode Optical Test Kit	OPTMKIT-2

DESCRIPTION	PART NO.
Connector Adaptor for OPT-ELS-50 Light Source	OPT-ELS-50-xx
Connector Adaptor for OPT-EPM- 50 Power Meter	OPT-EPM-50-xx
Protective rubber boot for OPT-ELS-50 Light Source and OPT-EPM-50 Power Meter	OPT-EPMELS-50-BOOT
Pack of 10 replacement ceramic sleeves for OPT-ELS-50 Light Source	OPT-ELS-50- SLEEVE

XX = either FC, SC or ST



+44 (0) 870 127 3330



+44 (0) 870 127 3331



sales@fibrefab.com



www.fibrefab.com