

### Essential Multimode and Singlemode Power Meter and Light Source Kit (OPTMSKIT-3)

The OPTMSKIT-3 test kit combines the OPT-EPM-50 optical power meter and OPT-ELS-50 and 50-S light sources and provides a cost-effective solution for testing both multimode and singlemode 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 and 50-S light sources give the end user the confidence that they will have reliable loss measurements time and again. The units also offers tone generation for fibre finding and up to 60 hours of battery life.

To complete your testing portfolio, the OPTMSKIT-3 also comes complete with high quality test leads in 50/125µm, 62.5/125µm and 9/125µm, and 50µm & 62.5µm mandrels enabling testing which meets the current ISO11801 3rd Edition, IEC61300 and TIA/EIA568-C.3 standards.

All units come with SC connector adaptors as standard. ST and FC interchangeable adaptors 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**
- > **2x SC-SC 9/125 1.5m Simplex Test Lead**
- > **1x 62.5/125 mandrel wrap**
- > **1x 50/125 mandrel wrap**
- > **2 Carrying Cases**
- > **Batteries**
- > **User-manual is available to download on our website**

Mandrel wraps



Interchangeable adaptors



OPT-ELS-50



OPT-EPM-50



OPT-ELS-50-S



Front view



Top view



Back view



Side view

## Technical Specification

SPECIFICATION <sup>a</sup>		
MODEL	OPT-ELS-50	OPT-ELS-50-S
Central wavelength (nm) <sup>b</sup>	850 ± 25 1300 + 50/-10	1310 ± 20 1550 ± 20
Spectral width (nm) <sup>b,c</sup>	≥40/120	≤5
Output power (dBm)	≥-24/ ≥-21 (50/125 μm)	≥-5
Power stability (dB) <sup>b,d</sup>	±0.10	±0.10
Battery life (hours) <sup>b</sup>	60	60
Warranty (year)	1	1
Tone generation (Hz)	270, 1k, 2k	270, 1k, 2k
Size(HxWxD)	188mm x 83 mm x 35 mm (7 <sup>7/16</sup> in x 3 <sup>5/16</sup> in x 1 <sup>7/16</sup> in)	188mm x 83 mm x 35 mm (7 <sup>7/16</sup> in x 3 <sup>5/16</sup> in x 1 <sup>7/16</sup> in)
Weight	0.4 kg (0.9lb)	0.4 kg (0.9lb)
Temperature	operating -10°C to 50°C (14°F to 122°F)	operating -10°C to 50°C (14°F to 122°F)
Relative humidity	0% to 95% non-condensing	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 <sup>a</sup>	
MODEL	OPT-EPM-50
Power meter port	InGaAs
Power range <sup>b</sup> (dBm)	10 to-60
Number of calibrated wave-lengths <sup>c</sup>	5
Power uncertainty <sup>d</sup>	± 5 %
Resolution (dB)	0.01
Display units	dB/dBm/W
Tone detection (Hz)	270,1k, 2k
Battery life (hours) <sup>d</sup>	>300
Warranty (year)	1
Size (HxWxD)	188 mm x 83 mm x 35 mm (7 <sup>7/16</sup> in x 3 <sup>5/16</sup> x 1 <sup>7/16</sup> 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 and Singlemode Optical Test Kit	<b>OPTMSKIT-3</b>

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

XX = either FC, SC or ST