

Multimode & Singlemode Power Meter and Light Source Kit (OPTMSKIT-2)

The test kit combines the OPT-EPM-500 optical power meter and OPT-ELS-100 light source and is ideally suited for testing fibre optic links within singlemode and multimode premises networks.

The OPT-EPM-500 power meter offers exceptional power measurement capabilities. Requiring no offset nulling, the OPT-EPM-500 gives reliable performance in the field, time after time. It also offers reference value setting capability, a 1000 data item storage facility and pass/fail indication (based on user inputted values). The OPT-EPM-500 also comes with software to create professional reports, with results downloadable to PC.

The accompanying OPT-ELS-100 light source combines four wavelengths on two ports in one machine; an LED port for testing at 850nm and 1300nm and a LASER port for testing 1310nm and 1550nm. The LED and LASER outputs are stabilised to ensure the accurate measurements of the signal attenuation across the fibre link.

To complete your testing portfolio, the OPTMSKIT-2 also comes complete with high quality multimode and singlemode test leads and 50um & 62.5um mandrels enabling testing which meets the current ISO11801 3rd Edition, IEC61300 and TIA/EIA568-C.3 standards.

Both units come with SC interchangeable adapters as standard and adapters for all other common connectors are available allowing for complete flexibility. The OPTMSKIT-2 comes complete with all batteries and AC adapter.

Features/Benefits

- > **Cost effective, rugged handheld instruments designed for reliable performance**
- > **Easy-to-use interface for error-free testing**
- > **Interchangeable connectors for ultimate flexibility**
- > **Memory capacity for 1000 data items & reporting software**
- > **Pass/Fail with LED indicators**
- > **Design for testing of premises networks**
- > **Complete test kit with test leads and mandrels**

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**
- > **USB (mini) 5 positions Type B**
- > **AC Adapter**
- > **Batteries**

Mandrel wraps



Adaptors



Front view



Kit view



Light source



Power meter



Technical Specification

SPECIFICATION ^a		
MODEL ^b	OPT-ELS-100	
	Singlemode	Multimode
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 for 8 hours (dB)	± 0.10	
Battery life (hours) (typical)	50	55
Warranty	1 year	
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	
Temperature	operating -10°C to 50°C storage -40°C to 70°C	
Relative humidity	0% to 95 % non-condensing	

SPECIFICATION ^a	
MODEL ^b	OPT-EPM-500
Detector ^c	Germanium
Power range ^d (dBm)	10 to -70
Wavelength range (nm)	800 to 1650
Number of calibrated wavelengths ^e	6
Power uncertainty ^f	± 5 % ± 0.1 nW
Automatic offset nulling ^g	0.01
Display units	dB/dBm/W
Tone detection	270 Hz, 1 kHz, 2 kHz
Battery life (hours)	>300
Warm-up period ^h (min)	0
Data storage (items)	Up to 1000
Battery life (hours) (typical)	70
Warranty	1 year
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
Temperature	operating -10°C to 50°C storage -40°C to 70°C
Relative humidity	0% to 95 % non-condensing

Notes :

- a. Guaranteed unless otherwise specified
- b. All specifications valid at 23°C ± 1 °C, with an FC connector
- c. rsm 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 this period, with an APC connector on the power meter



Training video
available on request

Notes :

- a. Guaranteed unless otherwise specified
- b. All specifications valid at 23°C ± 1 °C, with an FC connector
- c. All specifications valid at 1550 nm and 23°C ± 1 °C, with an FC connector
- d. In Cw mode; sensitivity defined as 6 x rms noise level
- e. At 850nm, 1300nm, 1310nm, 1490nm, 1550nm and 1625nm; for power > -50 dBm for OPT-EPM-500. For calibration wavelengths
- f. For calibrating wavelengths
- g. For power > -40 dBm
- h. For a variation of ≤ 0.06 dB at power levels ≥ -40 dBm

Ordering Information

DESCRIPTION	PART NO
Optronics Multimode & Singlemode Optical Test Kit With EU AC Adaptor	OPTMSKIT-2
Optronics Multimode & Singlemode Optical Test Kit With UK Adaptor	OPTMSKIT-2/UK

DESCRIPTION	PART NO
Connector Adaptor for OPT-ELS 100 Light Source	OPT-ELS-100-XX¹
Connector Adaptor for OPT-EPM 500 Power meter	OPT-EPM-500-XX²
Pack of 10 protective covers	OPT-ELS-100-CVR

¹XX: FC, ST, SC, E2000

²XX: FC, ST, SC, E2000, LC