



## SMLP 5-5 Single-mode/Multimode Test Kit

The SMLP 5-5 Test Kit combines an OPM5-2C Optical Power Meter and an OLS4 Optical Light Source and is ideally suited for testing fiber optic networks with hybrid (single-mode and multimode) cables.

The OLS 4 is an integrated, two-port LED and Laser light source. The LED output may be operated at 850 or 1300 nm while its Laser output can operate at 1310 or 1550 nm. Both the multimode and single-mode output ports are equipped with removable adapters to allow output connectors to be inspected and cleaned. The OPM5-2C is a full featured Optical Power Meter calibrated at 850, 1300, 1310, and 1550nm. It measures insertion loss (attenuation) in dB and power in dBm or  $\mu$ W and can store 500 test results per wavelength.

Both instruments are lightweight, hand-held, and operate from 9V batteries. With the supplied PC software, saved test results can be transferred to a PC for storage, printing, and analysis.

### features

- Multimode loss testing at 850 and 1300nm
- Single-mode loss testing at 1310 and 1550nm
- Certify 50 or 62.5  $\mu$ m multimode fiber links for any 850 or 1300nm application, including Gigabit Ethernet (GBE)
- Includes 50 and 62.5  $\mu$ m mandrels
- Power meter stores 500 test results per wavelength
- Transfer test results to a PC
- Field portable, battery operated
- N.I.S.T. traceable

### ordering information

The SMLP 5-5 test kit includes: OLS4 Optical Light Source, OPM5-2C Optical Power Meter, protective rubber boots, adapter cap, serial cable, PC software and user's guide, 50 and 62.5  $\mu$ m mandrels, SMLP 5-5 user's guide, warranty registration card, and carry case.



# SMLP 5-5 Single-mode/Multimode Test Kit

## specifications

Optical Light Source	OLS 4			
Optical Specifications	MM Optical Port		SM Optical Port	
Wavelength	850 ± 30 nm	1300 -10/+50 nm	1310 ± 20 nm	1550 ± 20 nm
Emitter type	LED, Class 1 (IEC 60825 - 1)		Laser Class 1 (FDA 21 CFR 1040.10 and 1040.11, and IEC 60825-1)	
Output power	> - 20 dBm* 62.5 µm Multimode**		- 5 dBm* 9 µm Single-mode	
Spectral width (FWHM)	850: ±40 nm (typ) 1300: ±120 nm (typ)		5 nm (max)	
Optical connectors	SC (FC & ST available)		SC (FC & ST available)	
Stability	± 0.1 dB over 8 hours (after 5 min. warm-up)		± 0.1 dB over 1 hour (after 20 min. warm-up) ± 0.15 dB over 8 hours (after 20 min. warm-up)	

### General Specifications

Power	9V battery, optional AC adapter
Battery life	Typical 20 hours with one output enabled
Operating temperature	-10 to 50°C
Storage temperature	-30 to 60°C
Size (H x W x D)	5.5 x 3.2 x 1.5 in (14.0 x 8.1 x 3.8 cm)
Weight	0.65 lb (.29 kg)

\* Adjustable ± 1 dB

\*\* Output power will be about 3 dB less if a 50 µm mandrel-wrapped jumper is used instead of a 62.5 µm mandrel-wrapped jumper.

All specifications at 25°C

Optical Power Meter	OPM 5-2C
Optical Specifications	
Calibration wavelength	850, 1300, 1310, 1550 nm
Detector type	Germanium (Ge)
Measurement range	+6 to -60 dBm
Measurement units	dB, dBm, µW
Accuracy (@25° C, -10.0 dBm)	±0.25 dB

### General Specifications

Power	typical 60 hours with 9V battery, optional AC adapter
Adapter caps	order separately (ST, SC, FC, and others available)
Operating temperature	-10 to 50°C
Storage temperature	-30 to 60°C
Relative humidity	0 to 95% (non-condensing)
Size (H x W x D)	5.5 x 3.2 x 1.5 in (14.0 x 8.1 x 3.8 cm)
Weight	0.58 lb (0.26 kg)