



SMLP 5-5 single-mode/multimode test kit with Wave ID and data storage

The SMLP 5-5 test kit combines the OPM 5-2D optical power meter and OLS 4 integrated LED and LASER light source and is ideally suited for testing fiber optic networks with hybrid (single-mode and multimode) cables.

The OLS 4 features 850 nm and 1300 nm LED output from a multimode output port and 1310 nm and 1550 nm LASER output from a single-mode output port. The LED and LASER outputs are stabilized to ensure accurate test results per current TIA/EIA requirements. This light source offers 4 modes of operation: Dual wavelengths sending ID, single wavelength sending ID, CW, and modulated Tone. [Active Output], [Tone], [Battery], and [External Power] indicators identify the currently enabled operating mode, battery charge status, and external power presence. Both output ports are equipped with removable SC (FC & ST available) adapters to allow the output connectors to be inspected and cleaned.

The OPM 5-2D offers Wave ID, automatic wavelength identification and switching, when used with the OLS 4 light source. Multiple test Tone detection is provided for fiber identification. The OPM 5-2D stores optical references for each calibrated wavelength. An easy to read Dual Wavelength LCD display with Backlight shows measured power [dBm or μ W] or insertion loss [dB], calibrated wavelengths, tone signal [Hz], wavelength ID, and the battery charge status. Up to 500 records per wavelength of power or insertion loss measurements may be stored in internal non-volatile memory.

Using the supplied Windows® compatible software and USB connection, test records may be transferred to a PC for storage, display, analysis, and printing.

In addition to being powered by two AA alkaline, the OPM 5-2D or OLS 4 can be powered by optional AC adapter and/or rechargeable NiMH battery pack.

The OPM 5-2D optical input port accepts Noyes thread-on style adapter caps. Adapter caps are required for operation and must be ordered separately.

The OPM 5-2D and OLS 4 are fully N.I.S.T. traceable.

ordering information

The SMLP 5-5 test kit includes:

OLS 4 optical light source, OPM5-2D optical power meter, AA batteries, protective rubber boots, adapter cap, USB cable, Windows® compatible software and user's guide, 50 and 62.5 μ m mandrels, SMLP 5-5 test kit user's guide, warranty registration card, and carry case.

Test jumpers and connector adapters are required for operation (purchased separately). Test jumpers with a variety of connector styles and fiber types and adapter caps for most common connectors are available.

features

- Rugged, handheld, lightweight
- Designed for field use
- Certify multimode and single-mode links per TIA/EIA standards
- Wave ID - automatic wavelength identification and switching
- Dual Wave ID, single Wave ID, CW, and modulated Tone (on single-mode output)
- 270 Hz, 330 Hz, 1 kHz, and 2 kHz Tone
- Large LCD with Backlight
- Power measurements in dBm or μ W; insertion loss in dB
- Reference power level storage
- Up to 500 test records per wavelength storage and download
- USB port for download of stored records
- AA alkaline, optional rechargeable NiMH battery pack or AC adapter
- Low battery indicator
- Free Windows® compatible software to view, print, and archive test records
- Free 50 μ m and 62.5 μ m mandrels
- Cost-effective, easy to use
- N.I.S.T traceable





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OLS 4 Light Source specifications

Optical	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*		0 dBm, 9 μm Single-mode	
Spectral width (FWHM)	40 nm (typ)	120 nm (typ)	5 nm (max)	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

Power	2 x AA batteries, optional NiMH or AC adapter		
Battery life (2 x AA)	Typical 30 hours, Minimum 20 hours	Typical 120 hours, Minimum 75 hours	
Operating temperature	-10 to 50°C, 90% RH (non-condensing)		
Storage temperature	-30 to 60°C, 90% RH (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	0.65 lb (.29 kg)		

* Output power will be approximately 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.

OPM 5-2D Power Meter specifications

Optical	OPM 5-2D
Calibrated wavelengths (nm)	850, 1300, 1310, 1550
Detector type	Germanium (Ge)
Measurement range (dBm)	+6 to -60
Tone detect range (dBm)	+6 to -50 +6 to -45 for 850nm
Wavelength ID range (dBm)	+6 to -50 +6 to -45 for 850nm
Accuracy (dB)*	± 0.25
Resolution (dB)	0.01
Measurement units	dB, dBm, μW
General	
Power	2 x AA batteries, optional NiMH or AC adapter
Battery life (2 x AA)	300 hours with backlight [Off] 20 hours with backlight [On]
Operating temperature	-10 to 50°C, 90% RH (non-condensing)
Storage temperature	-30 to 60°C, 90% RH (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)

*Accuracy measured at 25°C and -10 dBm per N.I.S.T. standards.
All specifications at 25°C

