



## SMLP5-5 Single-mode/Multimode Test Kit with Wave ID, Set Reference, and Data Storage

The SMLP5-5 test kit combines the OPM5-2D optical power meter and OLS4 integrated LED and LASER light source and is ideally suited for testing fiber optic networks with hybrid (single-mode and multimode) cables.

The OLS4 features 850/1300 nm LED output from a multimode output port and 1310/1550 nm LASER output from a single-mode output port. Each wavelength may be transmitted individually at CW or with user selectable modulated Tone (SM output). Also, each wavelength may be transmitted with Wave ID. When transmitting with Wave ID, the OLS4 supports transmitting pairs of wavelengths in an alternating pattern. Associated with each operating condition, the designated LED indicator will illuminate to identify the currently enabled operating mode and emitted wavelength(s) along with battery charge status and external power presence. Both output ports are equipped with UCI based removable adapters to allow the output connectors to be inspected and cleaned.

The OPM5-2D features automatic wavelength identification and switching (Wave ID) when used with the OLS4, multiple test Tone detection for fiber identification, and stores optical references for each calibrated wavelength and up to 500 records per wavelength of power or insertion loss measurements. Using the supplied Windows® compatible software and USB connection, test records are transferred to a PC for analysis, printing, and storage. A large dual-wavelength LCD display with backlight shows measured power [dBm or  $\mu$ W] or insertion loss [dB], calibrated wavelengths [nm], tone signal [Hz], wavelength ID, and estimated remaining battery life. The OPM5-2D optical input port accepts a variety of Noyes thread-on style adapter caps (ordered separately) to meet a wide range of testing requirements.

The OPM5-2D or OLS4 offer long battery life from common AA alkaline batteries with external AC adapter available as an option.

The SMLP5-5 test kit is fully N.I.S.T. traceable.

### Features

- Handheld, rugged, lightweight
- Wave ID (auto identification & switching)
- Dual or single Wave ID, CW, Tone
- 270 Hz, 330 Hz, 1 kHz, 2 kHz Tone
- Large LCD with backlight (OPM5-2D)
- Power measurements in dBm or  $\mu$ W; insertion loss in dB
- Reference power level storage
- Up to 500 records per wavelength storage
- USB port for download of stored records
- Windows® compatible software to view, print, and archive stored records
- Low battery indicator
- Long battery life with 2 x AA alkaline, optional AC adapter
- Free 50  $\mu$ m and 62.5  $\mu$ m mandrels
- Cost-effective, easy to use
- N.I.S.T traceable

### Applications

- Certify multimode and single-mode links per TIA/EIA standards
- Fiber identification prior to splicing

### Ordering Information

MODEL	INCLUDES
SMLP5-5	OLS4 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 $\mu$ m mandrels, SMLP5-5 test kit user's guide, 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 may be purchased from AFL Telecommunications.

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### OLS4 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		Laser	
	Class I FDA 21 CFR 1040.10 and 1040.11, IEC 60825-1: 2007-03			
Spectral width	40 nm (typ)	120 nm (typ)	5 nm (max)	5 nm (max)
Output power	> - 20 dBm, 62.5 μm multimode*		0 dBm, 9 μm single-mode	
Output Stability	± 0.1 dB over 8 hours (after 5 min. warm-up)		± 0.05 dB over 1 hour (after 15 min. warm-up) ± 0.1 dB over 8 hours (after 15 min. warm-up)	
<b>GENERAL</b>				
Power	2 x AA batteries, optional AC adapter			
Battery life	Typical 30 hours, minimum 20 hours		Typical 72 hours, minimum 40 hours	
Available adapters	SC FC, ST, LC			
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)	14.0 x 8.1 x 3.8 cm (5.5 x 3.2 x 1.5 in)			
Weight	0.29 kg (0.65 lb)			

\* Output power will be approximately 3 dB less if a 50μm mandrel-wrapped jumper is used instead of a 62.5μm mandrel-wrapped jumper.  
All specifications at 25°C.

### OPM5-2D specifications

OPTICAL	OPM5-2D
Calibrated wavelengths	850, 1300, 1310, 1490, 1550 nm
Detector type	Germanium (Ge)
Measurement range	+6 to -60 dBm
Tone detect range	+6 to -50 dBm +6 to -45 dBm for 850nm
Wavelength ID range	+6 to -50 dBm +6 to -45 dBm for 850nm
Accuracy*	± 0.25 dB
Resolution	0.01 dB
Measurement units	dB, dBm, μW
<b>GENERAL</b>	
Power	2 x AA batteries, optional AC adapter
Battery life	300 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)	14.0 x 8.1 x 3.8 cm (5.5 x 3.2 x 1.5 in)
Weight	0.26 kg (0.58 lb)

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



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