

**NOYES®**

### SMLP4-4 SM/MM Test Kit with Wave ID and Set Reference



#### Features

- Hand-held, rugged, lightweight
- Wave ID (auto identification and switching)
- Dual or single Wave ID, CW, Tone
- 270 Hz, 330 Hz, 1 kHz, 2 kHz Tone
- Large LCD with backlight (OPM4-2D)
- Power measurements in dBm or  $\mu$ W; insertion loss in dB
- Reference power level storage
- Low battery indicator
- Long battery life with 2 x AA alkaline
- 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

The SMLP4-4 test kit combines the OPM4-2D 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.

When used with the OLS4, the OPM4-2D offers automatic wavelength identification and switching - Wave ID feature that automatically detects and sets the wavelength(s), preventing setup and measurement errors. It significantly increases efficiency and reduces technician errors—and saves testing time—by eliminating the need to test each wavelength individually. The OPM4-2D stores optical references for each calibrated wavelength and offers multiple test tone detection for fiber identification. The OPM4-2D optical input port accepts a variety of NOYES thread-on style adapter caps (ordered separately) to meet a wide range of testing requirements.

The SMLP4-4 test kit is fully N.I.S.T. traceable.

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**SMLP4-4 SM/MM Test Kit with Wave ID and Set Reference**
**OLS4 Specifications <sup>a</sup>**

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 I FDA 21 CFR 1040.10 and 1040.11, IEC 60825-1: 2007-03		Laser	
Spectral Width	40 nm (typ)	120 nm (typ)	5 nm (max)	5 nm (max)
Output Power	>-20 dBm, 62.5 µm multimode <sup>b</sup>		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 °C to 50 °C, 90 % RH (non-condensing)			
Storage Temperature	-30 °C 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)			

**OPM4-2D Specifications <sup>a</sup>**

OPTICAL	OPM4-2D
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 for 850 nm
Wavelength ID Range	+6 to -50 dBm +6 to -45 dBm for 850 nm
Accuracy <sup>c</sup>	± 0.25 dB
Resolution	0.01 dB
Measurement Units	dB, dBm, µW
<b>GENERAL</b>	
Power	2 x AA batteries
Battery Life	300 hours
Operating Temperature	-10 °C to 50 °C, 90 % RH (non-condensing)
Storage Temperature	-30 °C 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)

**Notes:**

- All specifications valid at 25 °C unless otherwise specified.
- 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.
- Accuracy measured at 25 °C and -10 dBm per N.I.S.T. standards.

**Ordering Information**

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.

INCLUDES	AFL NO.
OLS4 optical light source, OPM4-2D optical power meter, AA batteries, protective rubber boots, adapter cap, 50 and 62.5 µm mandrels,, and carry case.	SMLP4-4

**Authorized Channel Partner**

**NOYES®**

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