

## SMLP 5-5

### SINGLEMODE / MULTIMODE TEST KIT



- Multimode loss testing at 850 and 1300 nm
- Singlemode loss testing at 1310\* and 1550 nm
- Store dual-wavelength loss results for up to 500 multimode and 500 singlemode fibers
- Field portable, battery operated
- Power meter connects to PC for additional testing options
- N.I.S.T. traceable



## DESCRIPTION

The SMLP 5-5 test kit combines the OPM 5-2B and a three-wavelength light source, the OLS 5-5.

The OPM 5-2B measures and stores loss results at 850 and 1300 nm for multimode fibers and 1310 and 1550 nm for singlemode fibers. The OLS 5-5 has three outputs: 850 nm for multimode testing, 1300 nm for multimode and singlemode testing, and 1550 nm for singlemode testing. The SMLP 5-5 is ideally suited for testing building and campus fiber optic networks with hybrid (singlemode & multimode) cables.

The OPM 5-2B stores 500 loss readings for each wavelength (850, 1300, 1310, and 1550 nm) for future downloading to a computer, or printer. In addition, the OPM 5-2B will remeasure any specific memory location without erasing or modifying other loss readings.

When the OPM 5-2B is linked directly to a computer during testing the unit is transformed into a powerful diagnostic lab meter. The included software offers real-time measurements for stability testing.

## LOSS TESTING with the SMLP 5-5

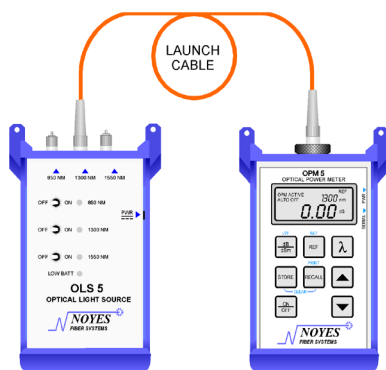


Diagram A

**Step 1 - Setting the Reference Level**  
Connect the OPM 5-2B optical power meter to the light source, as shown in Diagram A. Hold the REF key on the

OPM 5-2B until the word "HELD" is displayed. The display will automatically zero and the OPM 5-2B will be ready to measure loss.

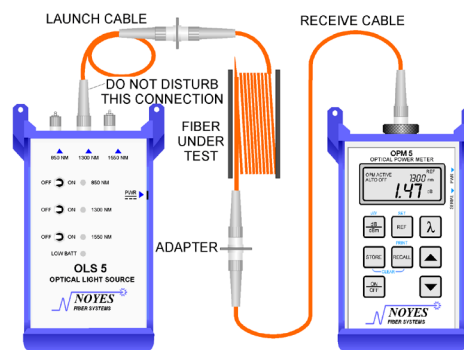


Diagram B

**Step 2 - Measuring Loss**  
Insert the fiber under test as shown in Diagram B. The insertion loss of the fiber is displayed on the OPM 5-2B. In this example the loss is 1.47 dB.

\* Singlemode fiber loss in the 1310 nm window is tested using the OLS 5-5 1300 nm LED source.

## SPECIFICATIONS

MODEL	SMLP 5-5
<b>Optical Power Meter</b>	<b>OPM 5-2B</b>
Calibrated Wavelengths	850, 1300, 1310, 1550 nm
Detector Type	Germanium (Ge)
Measurement Range	+6 to -60 dBm
Accuracy ( @ 25°C & -10.0dBm)	± 0.25 dB
Resolution	0.01 dB (.1 dB selectable)
Power	>30 hrs. typical operation with 9V Alkaline, 8 hrs. with NiCad option
Adapter Caps	ST (other styles available)
Size (H x W x D)	7.25 x 3.62 x 1.75 in (18.4 x 9.1 x 4.4 cm)

<b>Optical Light Source</b>	<b>OLS 5-5</b>
Emitter Type	LED (850 & 1300 nm), LASER (1550 nm)
Emitter Classification	Class 1 (FDA CFR 21 and IEC 825)
Wavelengths	850, 1300, 1550 nm
Stability ( @25 °C & 20 min. warm-up )	± 0.1 dB / 1 hr.
Output Power (nominal) Multimode ( 62.5/125µm) Singlemode ( 9/125µm)	-20 dBm @ 850 nm, >-20 dBm @ 1300 nm >-38 dBm @ 1300 nm, -10 dBm @ 1550 nm
Power	>8 hrs. typical operation with 9V alkaline, AC adapter optional
Optical Connectors	ST
Size (H x W x D)	7.25 x 4.40 x 1.75 in (18.4 x 11.2 x 4.4 cm)

<b>General Kit Specifications</b>	
Dynamic Range of Test Kit Multimode ( 62.5/125µm) Singlemode ( 9/125µm)	40 dB @ 850 & 1300 nm 22 dB @ 1300 nm, 50 dB @ 1550 nm
Weight	2 lbs. 9 oz. (1.15 kg)
Dimensions (H x W x D)	9.0 x 12.25 x 4.0 in (23 x 31 x 10 cm)
Operating Temperature	0° to 45° C
Storage Temperature	-30° to 60° C

## ORDERING INFORMATION

The SMLP 5-5 comes complete with an OLS 5-5 light source, OPM 5-2B optical power meter, ST adapter cap, carry case, WinTest software, protective rubber boots, serial cable, user guides and trace pads.



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