

MLP 5-2B

Fiber Optic Loss Test Kit



- Loss measurements at 850 nm and 1300 r
- Multimode and singlemode testing
- Set reference for each wavelength
- Power meter connects to PC for additional testing options
- N.I.S.T. traceable



DESCRIPTION

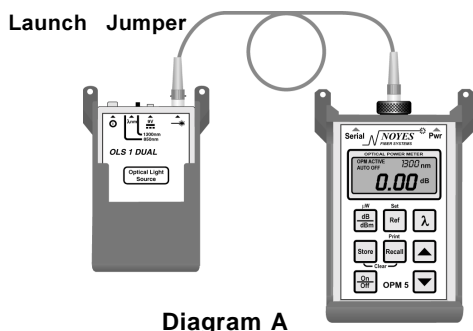
The Noyes MLP 5-2B Test Kit raises field testing to new standards by combining our popular OPM 5-2C Optical Power Meter and the OLS 1-Dual Optical Light Source in a rugged carrying case. Used during installations, the MLP 5-2B performs end-to-end loss measurements on a multimode fiber at 850 and 1300 nm, as well as measurements on a singlemode fiber at 1300 nm.

The OPM 5-2C stores 500 loss readings for each

wavelength (850, 1300, 1310, and 1550 nm) for future downloading to a computer or printer. In addition, the OPM5-2C will remeasure any specific memory location without erasing or modifying other loss readings.

When the OPM 5-2C 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 extensive stability testing.

LOSS TESTING with the MLP 5-2B

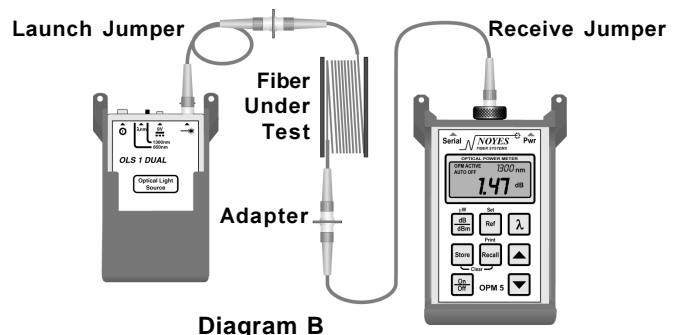


Step 1 - Reference Level

Connect the OPM 5-2C to the OLS 1-Dual. See Diagram A. Record the power level displayed on the meter, this is the reference level.

Step 2 - Measurement Level

Hold the **Ref** key on the OPM 5-2C until the word "HELD" is displayed. The display on the OPM 5-2C will automatically



zero and then measure loss directly.

Step 3 - End-to-End Loss

Without removing a launch jumper from the OLS 1-Dual, connect the OLS 1-Dual and OPM 5-2C to the fiber (link) under test (see Diagram B). The end-to-end loss of the fiber is displayed on the OPM 5-2C. In this example the loss is 1.47 dB.

SPECIFICATIONS

MODEL	MLP 5-2B	
Optical Power Meter	OPM 5-2C	
Calibration Wavelength (nm)	850	1300, 1310, 1550
Tone Detection Range (dBm)	+6 to -30	+6 to -35
Tone Detection Frequency (Hz)	270 ± 13.5, 1000 ± 50, 2000 ± 300	
Detector Type	Germanium (Ge)	
Measurement Range	+6 to -60 dBm	
Accuracy (@25° C & -10.0 dBm)	±0.25 dB	
Resolution	0.01 dB (.1 dB selectable)	
Power	>30 hrs. typical operation with 9V alkaline	
Adapter Caps	order separately (ST, SC, FC, and others available)	
Size (H x W x D)	5.5 x 3.2 x 1.5 in (14.0 x 8.1 x 3.8 cm)	
Optical Light Source	OLS 1-Dual	
Emitter Type	LED	
Emitter Classification	Class 1, IEC 825	
Spectral Width	40, 100 nm	
Wavelength	850, 1300 nm	
Stability (@25° C & 5 min. warm-up)	±.1 dB/8 hrs.	
Output Power		
Multimode (62.5/125 µm)	-20 dBm @ 850 nm, -20 dBm @ 1300 nm	
Singlemode (9/125 µm)	-40 dBm @ 1300 nm	
Power	40 hrs. typical operation with 9V alkaline, AC adapter optional	
Optical Adaptors	ST or SC	
Size (H x W x D)	4.6 x 2.6 x 1.2 in (11.6 x 6.6 x 3.1 cm)	
General Kit Specifications		
Dynamic Range of Test Kit		
Multimode (62.5/125 µm)	40 dB @ 850 & 1300 nm	
Singlemode (9/125 µm)	18 dB @ 1300 nm	
Weight	2 lb 9 oz (1.29 kg)	
Size (H x W x D)	9.0 x 12.25 x 4.0 in (22.8 x 31.1 x 10.1 cm)	
Operating Temperature	0° to 50° C	
Storage Temperature	-30° to 60° C	

Specifications are subject to change.

ORDERING INFORMATION

The MLP 5-2B Test Kit comes equipped with a OPM 5-2C and an OLS 1-Dual along with one ST (or SC) adapter cap, carry case, WinTest data analysis software, serial cable, trace pad, protective rubber boots, and user's guide. Additional items may be needed, such as, patch cords, adapters, and adapter caps (depending upon the type of testing). Listed below are the Noyes part numbers for additional adapter caps.

ACCESSORY ADAPTER CAPS for UNIVERSAL CONNECTOR INTERFACE

1.25mm Universal	8800-00-0224	Backplane SC	8800-00-0219
2.5mm Universal	8800-00-0214	ESCON	8800-00-0210
FC	8800-00-0200	DIN 47256	8800-00-0211
SC	8800-00-0209	FDDI Kit	8800-00-0215
ST	8800-00-0202	FDDI	8800-00-0205
E-2000	8800-00-0221	D4	8800-00-0201
Biconic	8800-00-0204	1000 µm	8800-00-0223
SMA	8800-00-0203	MU Simplex	8800-00-0226
LC Simplex/Duplex	8800-00-0225	MT-RJ	8800-00-0231



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