

# MLP 4-2 Fiber Optic Loss Test Kit



- Loss Measurements at 850 nm and 1300 nm
- Multimode and Singlemode Testing
- Set Reference for Each Wavelength
- Small Size, Field Portable, Battery Operated
- Auto or Manual Power Off
- N.I.S.T. Traceable



## DESCRIPTION

The MLP 4-2 Test Kit by Noyes Fiber Systems offers accurate fiber optic testing at an affordable price. Combining the OPM 4-2C Optical Power Meter and the OLS 1-2 Optical Light Source in a rugged carry case; the MLP 4-2 is a complete Test Kit for fiber optic LAN's, and WAN's.

Used during installations or maintenance, the MLP 4-2 performs end-to-end loss measurements on multimode fiber at 850, and 1300 nm; as well as, singlemode fiber at 1300 nm. The auto zero feature stores reference values at each wavelength for direct loss readings in dB.

## LOSS TESTING WITH THE MLP 4-2

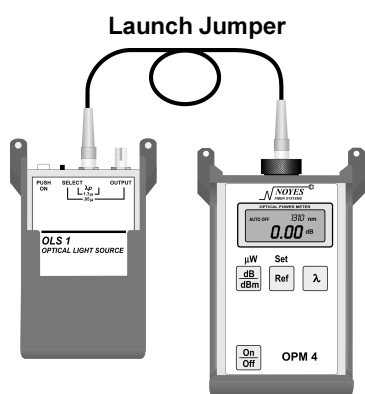


Diagram A

### Step 1 - Reference Level

Using a launch jumper, Connect the OPM 4-2C to the OLS 1-2 (see Diagram A).

### Step 2 - Set Reference

Hold the Ref key on the OPM 4-2C until the word "HELD" appears in the display. The display on the OPM 4-2C will automatically zero and then measure loss directly.

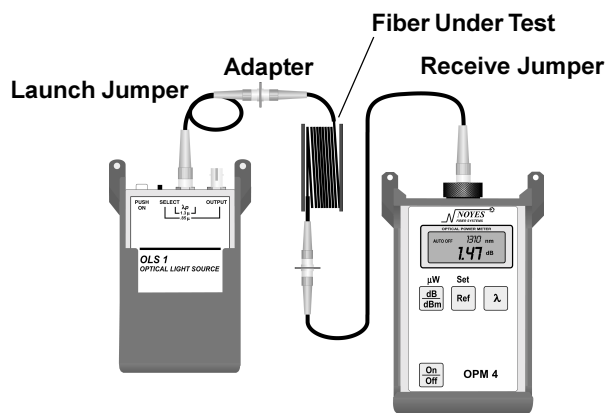


Diagram B

### Step 3 - End-to-End Loss

Without removing a launch jumper from the OLS 1-2, connect the OLS 1-2 and OPM 4-2C to the fiber (link) under test (see Diagram B). The end-to-end loss of the fiber is displayed on the OPM 4-2C. In this example the loss is 1.47 dB.

## SPECIFICATIONS

MODEL	MLP 4-2
<b>Optical Power Meter</b>	<b>OPM 4-2C</b>
Calibration Wavelength	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
Power	>60 hrs. typical operation with 9V Alkaline
Adapter Cap	ST
Size (H x W x D)	5.5 x 3.2 x 1.5 in (14.0 x 8.1 x 3.8cm)

<b>Optical Light Source</b>	<b>OLS 1-2</b>
Wavelength	850, 1300 nm
Emitter Type	LED
Stability ( @25°C & 5 min. warm-up )	± .1 dB/8 hrs.
Output Power	
Multimode ( 62.5/125µm)	-20 dBm @ 850 nm, -20 dBm @ 1300 nm
Singlemode ( 9/125µm)	-40 dBm @ 1300 nm
Power	80 hrs. typical operation with 9V alkaline, AC adapter optional
Optical Connectors	ST
Size (H x W x D)	4.6 x 2.6 x 1.2 in (11.6 x 6.6 x 3.1 cm)

<b>General Kit Specifications</b>	
Dynamic Range of Test Kit	
Multimode ( 62.5/125µm)	35 dB @ 850 & 1300 nm
Singlemode ( 9/125µm)	15 dB @ 1300 nm
Weight	2 lbs. 9 oz. (1.29 kg)
Dimensions (H x W x D)	9.0 x 12.25 x 4.0 in (22.8 x 31.1 x 10.1 c m)
Operating Temp.	0 to 45° C
Storage Temp.	-30 to 60° C

## ORDERING INFORMATION

The MLP 4-2 test kit comes equipped with an OPM 4-2C and an OLS 1-2 along with an ST adapter cap, carry case, and operations manual. Additional items may be needed, such as patch cords, couplings, and adapter caps (depending upon the type of testing). Listed below are the Noyes part numbers for additional adapter caps.

### ACCESSORY ADAPTER CAPS for the UNIVERSAL ADAPTER INTERFACE

1.25mm Universal .....	8800-00-0224	Radial PFO/VFO .....	8800-00-0212
2.5mm Universal .....	8800-00-0214	Backplane SC .....	8800-00-0219
FC .....	8800-00-0200	ESCON .....	8800-00-0210
SC .....	8800-00-0209	DIN 47256 .....	8800-00-0211
ST .....	8800-00-0202	FDDI Kit.....	8800-00-0215
E-2000 .....	8800-00-0221	FDDI .....	8800-00-0205
Biconic .....	8800-00-0204	D4 .....	8800-00-0201
SMA .....	8800-00-0203	1000 µm .....	8800-00-0223
LC Simplex/Duplex .....	8800-00-0225	MU Simplex.....	8800-00-0226
Bare Fiber .....	8800-00-0206	MT-RJ .....	8800-00-0231



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