

### NOYES® MLP1 Multimode Loss Test Kit



MLP1 test kits are inexpensive solutions for testing multimode systems. By joining the OPM1 optical power meter and the OLS1 optical light source, the MLP1 is a great kit for beginners or network owners. Two versions of the MLP1 test kit are available for testing Premises networks, LAN, and Gigabit Ethernet.

MLP1-1S test kit includes the OPM1-2C power meter and OLS1-1C (660, 850 nm) light source. Good test kit with visible 660 nm source for Plastic Optical Fiber (POF).

MLP1-2 test kit combines the OPM1-2C optical power meter and OLS1-2C (850, 1300 nm) optical light source. Basic multimode test kit for light use.

Included 50 and 62.5  $\mu\text{m}$  fiber mandrels for certifying both 50 and 62.5  $\mu\text{m}$  fiber links for current and planned high bit rate applications including Gigabit Ethernet and 10 Gigabit Ethernet. Mandrels apply to launch jumpers in seconds without tools and ensure loss measurements comply with TIA/EIA-568-B standard.

#### Features

- Hand-held, rugged, lightweight
- Test multimode networks
- Loss measurements at 850 and 1300 nm
- Includes 50 and 62.5  $\mu\text{m}$  mandrels
- Field portable, battery operated
- Certify 50 or 62.5  $\mu\text{m}$  multimode fiber links for any 850 or 1300 nm application, including Gigabit Ethernet (GBE)
- N.I.S.T. traceable

#### Applications

- Certify 50 and 62.5  $\mu\text{m}$  fiber links for 850/1300 nm
- Certify single-mode links per TIA/EIA standards
- Passive Optical Networks (PON) testing

## NOYES® MLP1 Multimode Loss Test Kit

### Specifications <sup>a</sup>

MODEL	MLP1-1S		MLP1-2	
<b>OPTICAL LIGHT SOURCE</b>	<b>OLS1-1C</b>		<b>OLS1-2C</b>	
Output Ports	2		2	
Output Wavelength	660 nm - red	850 + 35/-40nm	850 + 35/-40 nm	1300 + 50/-10 nm
Spectral Width (typ) (FWHM)	30 nm	40 nm	40 nm	120 nm
Output Power	-10 dBm <sup>b</sup>	>20 dBm	-20 dBm	>20 dBm
Stability (@25°C, 5-minute warm-up)	0.1 dB over 8 hours		0.1 dB over 8 hours	
Fiber Size	1000 μm, 62.5 μm <sup>c</sup>		62.5 μm <sup>c</sup>	
Emitter Type	LED, Class I FDA 21 CFR 1040.10 and 1040.11, IEC 60825-1: 2007-03			
Power	Typical 60 hours with 9V battery, optional AC adapter			
Connector	ST			
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	0.65 lb (.29 kg)			
<b>OPTICAL POWER METER</b>	<b>OPM1-2C</b>			
Calibration Wavelength	850, 1300, 1310, 1550 nm			
Detector Type	Germanium (Ge)			
Dynamic Range	+6 to -60 dBm			
Accuracy (@ 25°C & -10.0 dBm)	±0.25 dB			
Measurement Units	dBm			
Power	Typical 60 hours with 9V battery			
Adapter Caps	Order separately (ST, SC, FC, and others available)			
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	0.58 lb (0.26 kg)			
<b>GENERAL KIT SPECIFICATIONS</b>	<b>MLP1-1S</b>		<b>MLP1-2</b>	
Dynamic Range: Multimode ( 62.5/125 μm), Single-mode ( 9/125 μm)	40 dB @ 850 nm		40 dB @ 850 & 1300 nm 20 dB @ 1300 nm	
Weight	2.9 lbs (1.3 kg)			
Dimensions (H x W x D)	23.4 x 34 x 10.7 cm (9.2 x 13.4 x 4.2 in)			
Operating Temperature	-10°C to 50°C			
Storage Temperature	-30°C to 60°C			

#### Notes:

- All specifications valid at 25°C unless otherwise specified.
- 10 dBm output is into 1000 micron fiber.
- May be used to test 50 or 62.5 μm fiber with supplied mandrels.

### Ordering Information

Test jumpers and connector adapters are required for operation (purchased separately). Test jumpers with a variety of connector styles and fiber types are available. Adapter caps for most common connectors may be purchased from AFL.

INCLUDES	AFL NO.
Optical light source, optical power meter, protective rubber boots, adapter cap, 50 and 62.5 μm mandrels, and carry case.	All MLP1 models

### Calibration Plans

AFL recommends annual calibrations on NOYES Test and Inspection products. Prepaid Cal plans offer two annual calibrations at a discounted price, a convenient calibration expiration email service, express calibration services and access to the NOYES product knowledge base. Cal Plus plans offer the same services as the Cal plans with the addition of a two year extended warranty (three years total coverage).

MODEL	2 YR CAL PLAN	2 YR CAL PLUS PLAN
	AFL NO.	AFL NO.
MLP1-1	CAL2-00-MLP1-1	CAL2-01-MLP1-1
MLP1-2	CAL2-00-MLP1-2	CAL2-01-MLP1-2

