

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 μm fiber mandrels for certifying both 50 and 62.5 μm 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.

Feature

- Hand-held, rugged, lightweight
- Test multimode networks
- Loss measurements at 850 and 1300 nm
- Includes 50 and 62.5 μm mandrels
- Field portable, battery operated
- Certify 50 or 62.5 μm 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 μm fiber links for 850/1300 nm
- Certify single-mode links per TIA/EIA standards
- Passive Optical Networks (PON) testing

Ordering Information

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

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.

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Specifications ^a

MODEL	MLP1-1S	MLP1-2
OPTICAL LIGHT SOURCE	OLS1-1C	OLS1-2C
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 ^b >20 dBm	-20 dBm >20 dBm
Stability (@25 °C, 5 min. warm-up)	0.1 dB over 8 hours	0.1 dB over 8 hours
Fiber Size	1000 µm, 62.5 µm ^c	62.5 µm ^c
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)	
OPTICAL POWER METER	OPM1-2C	
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)	
GENERAL KIT SPECIFICATIONS	MLP1-1S	MLP1-2
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:

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

Authorized Channel Partner



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