



## MLP 1 Fiber Optic Loss Test Kits

The MLP 1 test kits are inexpensive solutions for testing multimode and single-mode systems. By joining the OPM 1 optical power meter and the OLS 1 optical light source, the MLP 1 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. The MLP1-1S test kit includes the OPM1-2C power meter and OLS1-1C light source. The MLP1-2 test kit combines the OPM1-2C optical power meter and OLS1-2C optical light source

### Features

- Multimode and Single-mode testing
- Loss measurements at 850 and 1300nm
- 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 1300nm application, including Gigabit Ethernet (GBE)
- N.I.S.T. traceable

### Ordering Information

Model	Includes
All MLP 1 models	Optical light source, optical power meter, protective rubber boots, adapter cap, 50 and 62.5 $\mu\text{m}$ mandrels, user's guide, and carrying case.

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 Telecommunications.

### Specifications

Model	MLP 1-1S		MLP 1-2	
Optical Light Source	OLS 1-1C		OLS 1-2C	
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*	>-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 $\mu\text{m}$ , 62.5 $\mu\text{m}$ **		62.5 $\mu\text{m}$ **	
Emitter type	Class 1 (IEC 60825 - 1)			
Power	Typical 60 hours with 9V battery, optional AC adapter			
Connector	ST			
Size (H x W x D)	5.5 x 3.2 x 1.5 in (14.0 x 8.1 x 3.8 cm)			
Weight	0.65 lb (.29 kg)			

\* -10 dBm output is into 1000 micron fiber.

\*\* May be used to test 50 or 62.5  $\mu\text{m}$  fiber with supplied mandrels.

Optical Power Meter	OPM 1-2C	
Calibration wavelength	850, 1300, 1310, 1550 nm	
Detector type	Germanium (Ge)	
Dynamic range	+6 to -60 dBm	
Accuracy (@ 25°C & -10.0 dBm)	$\pm 0.25$ 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)	5.5 x 3.2 x 1.5 in (14.0 x 8.1 x 3.8 cm)	
Weight	0.58 lb (0.26 kg)	
General Kit Specifications	MLP 1-1S	MLP 1-2
Dynamic range:		
Multimode ( 62.5/125 $\mu\text{m}$ )	40 dB @ 850 nm	40 dB @ 850 & 1300 nm
Single-mode ( 9/125 $\mu\text{m}$ )		20 dB @ 1300 nm
Weight	2.9 lbs (1.3 kg)	
Dimensions (H x W x D)	9.2 x 13.4 x 4.2 in (23.4 x 34 x 10.7 cm)	
Operating temperature	-10 to 50°C	
Storage temperature	-30 to 60°C	

All specifications at 25°C