



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 μm mandrels
- Field portable, battery operated
- Certify 50 or 62.5 μm 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 μm 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 μm , 62.5 μm **		62.5 μm **	
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 μm 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)	± 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 μm)	40 dB @ 850 nm	40 dB @ 850 & 1300 nm
Single-mode (9/125 μm)		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

