



## MLP 4-2 Fiber Optic Loss Test Kit

The MLP 4-2 test kit 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 LANs, and WANs.

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

### features

- Loss measurements at 850 and 1300 nm
- Multimode and Single-mode testing
- Field portable, battery operated
- Includes 50 and 62.5  $\mu\text{m}$  mandrels
- Certify 50 or 62.5  $\mu\text{m}$  multimode fiber links for any 850 or 1300nm application, including Gigabit Ethernet (GBE)
- Set reference for each wavelength
- Auto or manual power off
- N.I.S.T. traceable

### ordering information

The MLP 4-2 test kit includes: OLS 1-2 optical light source, OPM 4-2C optical power meter, protective rubber boots, adapter cap, 50 and 62.5 $\mu\text{m}$  mandrels, user's guide, warranty registration card, and carry case. Test jumpers and connector adapters are required for operation (purchased separately). Test jumpers with a variety of connector styles and fiber types and adapter caps for most common connectors are available.

### specifications

Optical Power Meter	OPM 4-2C
Calibration wavelength	850, 1300, 1310, 1550 nm
Detector type	Germanium (Ge)
Measurement range	+6 to -60 dBm
Accuracy (@ 25°C, -10.0 dBm)	$\pm 0.25$ dB
Measurement units	dB, dBm, $\mu\text{W}$
Power	Typical 60 hours with 9V battery
Size (H x W x D)	5.5 x 3.2 x 1.5 in (14 x 8 x 3.8 cm)
Weight	0.58 lb (0.26 kg)

Optical Light Source	OLS 1-2
Wavelength (nm)	850 + 35/-40, 1300 +50/-10
Spectral width (typ) (FWHM)	40, 120 nm
Emitter type	LED, Class 1 (IEC 60825 - 1)
Stability (@25°C, 5 min. warm-up)	$\pm 0.1$ dB over 8 hours
Output power; Multimode (62.5/125 $\mu\text{m}$ ) Single-mode (9/125 $\mu\text{m}$ )	-20 dBm @ 850 nm, -20 dBm @ 1300 nm -40 dBm @ 1300 nm
Power	Typical 60 hours with 9V battery, optional AC adapter
Optical connector	ST
Size (H x W x D)	5.5 x 3.2 x 1.5 in (14 x 8 x 3.8 cm)
Weight	0.65 lb (.29 kg)

General Kit Specifications	MLP 4-2
Dynamic range: Multimode (62.5/125 $\mu\text{m}$ ) Single-mode (9/125 $\mu\text{m}$ )	40 dB @ 850 & 1300 nm 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  
Specifications are subject to change.