



## 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               |                  |
|-----------------------------------|-------------------------------------------------------|----------------|-----------------------|------------------|
|                                   | 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

