MLP4-2 Multimode Test Kit with Wave ID and Set Reference

The MLP4-2 test kit combines the OPM4-2D optical power meter and OLS1-Dual LED light source and is ideally suited for testing multimode fiber optic networks.

The OLS1-Dual features 850 and 1300 nm LED output from a single output port and is easy to operate with only a power button and a wavelength select button. Each wavelength may be transmitted individually at CW or with Wave ID. When transmitting with Wave ID, the OLS1-Dual supports transmitting pairs of wavelengths in an alternating pattern. Associated with each operating condition, the designated LED indicator will illuminate to identify the currently enabled operating mode and emitted wavelength(s) along with battery charge status and external power presence. The OLS1-Dual output port is equipped with UCI based removable adapters to allow the output connectors to be inspected and cleaned.

When used with the OLS1-Dual, the OPM4-2D offers automatic wavelength identification and switching - Wave ID feature that automatically detects and sets the wavelength(s), preventing setup and measurement errors. It significantly increases efficiency and reduces technician errors—and saves testing time—by eliminating the need to test each wavelength individually. The OPM4-2D stores optical references for each calibrated wavelength and offers multiple test tone detection for fiber identification. The OPM4-2D optical input port accepts a variety of Noyes thread-on style adapter caps (ordered separately) to meet a wide range of testing requirements.

The MLP4-2 test kit is fully N.I.S.T. traceable.

Features

- Hand-held, rugged, lightweight
- Wave ID (auto identification and switching)
- Dual or single Wave ID, CW
- Large LCD with backlight (OPM4-2D)
- Power measurements in dBm or µW; insertion loss in dB
- Reference power level storage
- Low battery indicator
- Long battery life with 2 x AA alkaline
- Free 50µm and 62.5µm mandrels
- Cost-effective, easy-to-use
- N.I.S.T traceable

Applications

- Certify multimode fiber links per TIA/EIA standards
- The 1300 nm output can also be used to test short distance (up to 10 km) single-mode fiber links

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MLP4-2 Multimode Test Kit with Wave ID and Set Reference

OLS1-Dual Specifications

OPTICAL	OLS1-DUAL (SINGLE PORT)	
Wavelength	850 ±30 nm	1300 +50/-10 nm
Emitter Type	LED, Class I FDA 21 CFR 1040.10 and 1040.11, IEC 60825-1: 2007-03	
Spectral Width	40 nm (typ)	120 nm (typ)
Output Power	>-20 dBm*	
Output Stability	± 0.1 dB over 8 hours (after 5 min. warm-up)	
Fiber Size	62.5µm**	
GENERAL		
Power	2 x AA batteries, optional AC adapter	
Battery Life	Typical 30 hours, minimum 20 hours	
Available Adapters	SC, FC, ST	
Operating Temperature	-10 to 50°C, 90% RH (non-condensing)	
Storage Temperature	-30 to 60°C, 90% RH (non-condensing)	
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	0.29 kg (0.65 lb)	

* *Output power will be approximately 3 dB less if a 50µm mandrel-wrapped jumper is used instead of a 62.5µm mandrel-wrapped jumper.*

** *May be used to test 50 or 62.5µm fiber with supplied mandrels. All specifications at 25°C.*

Ordering Information

MODEL	INCLUDES
MLP4-2	OLS1-Dual optical light source, OPM4-2D optical power meter, AA batteries, protective rubber boots, adapter cap, 50 and 62.5µm mandrels, and carry case.

Note: 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 may be purchased from AFL.

OPM4-2D Specifications

OPTICAL	OPM4-2D
Calibrated Wavelengths	850, 1300,1310, 1490, 1550 nm
Detector Type	Germanium (Ge)
Measurement Range	+6 to -60 dBm
Tone Detect Range	+6 to -50 dBm +6 to -45 for 850 nm
Wavelength ID Range	+6 to -50 dBm +6 to -45 dBm for 850 nm
Accuracy*	± 0.25 dB
Resolution	0.01 dB
Measurement Units	dB, dBm, µW
GENERAL	
Power	2 x AA batteries
Battery Life	300 hours
Operating Temperature	-10 to 50°C, 90% RH (non-condensing)
Storage Temperature	-30 to 60°C, 90% RH (non-condensing)
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	0.26 kg (0.58 lb)

* *Accuracy measured at 25ºC and -10 dBm per N.I.S.T. standards. All specifications at 25°C*