



MLP 4-2 multimode test kit with Wave ID and set reference

The MLP 4-2 test kit combines the OPM 4-2D optical power meter and OLS 1-Dual LED light source and is ideally suited for testing multimode fiber optic networks.

The OLS 1-Dual features 850 nm 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. The LED output is stabilized to ensure accurate test results per current TIA/EIA requirements. This light source offers 3 modes of operation: Dual wavelengths sending ID, single wavelength sending ID, and CW. [Active Output], [Battery], and [External Power] indicators identify the currently enabled operating mode, battery charge status, and external power presence. The output port is equipped with a removable SC (FC & ST available) adapter to allow the output connector to be inspected and cleaned.

The OPM 4-2D offers Wave ID, automatic wavelength identification and switching, when used with the OLS 1-Dual. Multiple test Tone detection is provided for fiber identification. The OPM 4-2D stores optical references for each calibrated wavelength. An easy to read Dual Wavelength LCD display with Backlight shows measured power [dBm or μ W] or insertion loss [dB], calibrated wavelengths, tone signal [Hz], wavelength ID, and the battery charge status.

In addition to being powered by two AA alkaline, the OPM 4-2D or OLS 1-Dual can be powered by optional AC adapter and/or rechargeable NiMH battery pack.

The OPM 4-2D optical input port accepts Noyes thread-on style adapter caps. Adapter caps are required for operation and must be ordered separately.

The OPM 4-2D and OLS 1-Dual are fully N.I.S.T. traceable.

Features

- Rugged, handheld, lightweight
- Designed for field use
- Certify multimode fiber links per TIA/EIA standards
- Wave ID - automatic wavelength identification and switching
- Dual Wave ID, single Wave ID, and CW
- Large LCD with Backlight
- Power measurements in dBm or μ W; insertion loss in dB
- Reference power level storage
- AA alkaline, optional rechargeable NiMH battery pack or AC adapter
- Low battery indicator
- Free 50 μ m and 62.5 μ m mandrels
- Cost-effective, easy to use
- N.I.S.T traceable

Ordering Information

Model	Includes
MLP 4-2	OLS 1-Dual optical light source, OPM 4-2D optical power meter, AA batteries, protective rubber boots, adapter cap, 50 and 62.5 μ m mandrels, user's guide, 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 may be purchased from AFL Telecommunications.



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OLS 1-Dual specifications

Optical	OLS 1-Dual (single port)	
Output wavelength	850 ±30 nm	1300 +50/-10 nm
Spectral width (typ) (FWHM)	40 nm	120 nm
Output power	>-20 dBm*	
Fiber size	62.5 µm**	
Output connector	SC (FC & ST available)	
Emitter classification	Class 1 (IEC 60825 - 1)	
Stability	± 0.1 dB over 8 hours (after 5 min. warm-up)	
General		
Power	2 x AA batteries, optional NiMH or AC adapter	
Battery life (2 x AA)	Typical 30 hours, Minimum 20 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)	5.5 x 3.2 x 1.5 in (14.0 x 8.1 x 3.8 cm)	
Weight	0.65 lb (.29 kg)	

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

** May be used to test 50 or 62.5 µm fiber with supplied mandrels.

All specifications at 25°C

OPM 4-2D specifications

Optical	OPM 4-2D
Calibrated wavelengths	850, 1300, 1310, 1550 nm
Detector type	Germanium (Ge)
Measurement range	+6 to -60 dBm
Tone detect range	+6 to -50 dBm
	+6 to -45 dBm 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, optional NiMH
Battery life (2 x AA)	300 hours with backlight [Off] 20 hours with backlight [On]
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)	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)

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

All specifications at 25°C

