AFL

LASER COMPONENTS®

Test and Inspection

NOYES®
OLS1-Dual LED Light Source

The OLS1-Dual is a hand-held, rugged LED light source designed for performing insertion loss measurements on multimode fiber optic links when used with an optical power meter. The LED output is stabilized to ensure accurate test results per current TIA/EIA requirements.

The OLS1-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. 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 output port is equipped with UCI-based removable adapters to allow the output connectors to be inspected and cleaned. The OLS1-Dual offers long battery life from common AA alkaline batteries with external AC adapter available as an option. The OLS1-Dual is fully N.I.S.T. traceable.

Features

- Dual wavelengths from a single port
- Dual or single Wave ID, CW
- Low battery LED indicator
- Compliant with the IEC 61280-4-1 standard when used with an external conditioner
- Long battery life with 2 AA alkaline, optional AC adapter
- Free 50 µm and 62.5 µm mandrels
- Cost-effective, easy-to-use
- Hand-held, rugged, lightweight

Applications

- Certify 50 or 62.5 µm multimode fiber links for any 850 or 1300 nm application, including Gigabit Ethernet (GBE) per TIA/EIA standards
- The 1300 nm output can also be used to test short distance (up to 10 km) single-mode fiber links
- Certify Multimode fiber links for Gigabit Ethernet (GBE)
- Test Ethernet, Token Ring, and FDDI fiber networks

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Specifications [a]

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 [b]	
Output Stability	±0.1 dB over 8 hours (after 5-minute warm-up)	
Fiber Size	62.5 μm [c]	
GENERAL		
Power	2 AA batteries, optional AC adapter	
Battery Life	Typical 30 hours, minimum 20 hours	
Available Adapters	SC, FC, ST	
Operating Temperature	-10°C to 50°C, 90 % RH (non-condensing)	
Storage Temperature	-30°C 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)	

Notes:
a. All specifications valid at 25°C unless otherwise specified.
b. 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.
c. May be used to test 50 or 62.5 μm fiber with supplied mandrels. All specifications at 25°C.

Ordering Information

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.

INCLUDES	AFL NO.
OLS1-Dual, protective rubber boot, 2 AA batteries, mandrels, and carry case.	OLS1-Dual

Calibration Plans

AFL recommends annual calibrations on NOYES Test and Inspection products. Prepaid Cal plans offer two annual calibrations at a discounted price, a convenient calibration expiration email service, express calibration services and access to the NOYES product knowledge base. Cal Plus plans offer the same services as the Cal plans with the addition of a two year extended warranty (three years total coverage).

MODEL	2 YR CAL PLAN	2 YR CAL PLUS PLAN
	AFL NO.	AFL NO.
OLS1-DUAL	CAL2-00-OLS1-DUAL	CAL2-01-OLS1-DUAL