

## Test and Inspection



### **NOYES® OLS4 Laser and LED Source**

The OLS4 is a hand-held, rugged, integrated two-port LED and laser light source designed for performing insertion loss measurements on multimode or single-mode fiber optic links when used with an optical power meter. When paired with an optical fiber identifier, the OLS4 may be used for fiber identification. The LED and laser outputs are stabilized to ensure accurate test results per current TIA/EIA requirements.

The OLS4 features 850/1300 nm LED output from a multimode output port and 1310/1550 nm laser output from a single-mode output port. Each wavelength may be transmitted individually at CW or with user selectable modulated Tone (SM output). Also, each wavelength may be transmitted with Wave ID. When transmitting with Wave ID, the OLS4 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.

Both output ports are equipped with UCI-based removable adapters to allow the output connectors to be inspected and cleaned. The OLS4 offers long battery life from common AA alkaline batteries with external AC adapter available as an option. The OLS4 is fully N.I.S.T. traceable.

#### **Features**

- Hand-held, rugged, lightweight
- Integrated LED and Laser light source
- Dual wavelengths from a single port
- Dual or single Wave ID, CW, Tone (SM output)
- 270 Hz, 330 Hz, 1 kHz, 2 kHz Tone
- Low battery LED indicator
- Long battery life with 2 AA alkaline, optional AC adapter
- Free 50 µm and 62.5 µm mandrels
- Cost-effective, easy-to-use
- N.I.S.T. Traceable

#### **Applications**

- Certify multimode and single-mode links per TIA/EIA standards
- Fiber identification prior to splicing

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Specifications are subject to change without notice.

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#### Specifications <sup>a</sup>

OPTICAL	MM OPTICAL PORT		SM OPTICAL PORT	
Wavelength	850 ±30 nm	1300 -10/+50 nm	1310 ±20 nm	1550 ±20 nm
Emitter Type	LED Laser Class I FDA 21 CFR 1040.10 and 1040.11, IEC 60825-1: 2007-03			
Spectral Width	40 nm (typ)	120 nm (typ)	5 nm (max)	5 nm (max)
Output Power	>-20 dBm, 62.5 µm multimode <sup>b</sup>		0 dBm, 9 µm single-mode	
Output Stability	±0.1 dB over 8 hours (after 5-minute warm-up)		±0.05 dB over 1 hour (after 15-minute warm-up) ±0.1 dB over 8 hours (after 15-minute warm-up)	
<b>GENERAL</b>				
Power	2 AA batteries, optional AC adapter			
Battery Life	Typical 30 hours, minimum 20 hours		Typical 72 hours, minimum 40 hours	
Available Adapters	SC FC, ST, LC			
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:

- All specifications valid at 25°C unless otherwise specified.
- 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.

#### 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.
OLS source, protective rubber boot, 2 AA batteries, mandrels, and carry case.	OLS4

#### 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.
OLS4	CAL2-00-OLS4	CAL2-01-OLS4



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