NOYES®
OLS7-FTTH and OLS7-3
Triple Wavelength Laser Sources

The OLS7-FTTH and OLS7-3 are hand-held, rugged laser sources designed for performing insertion loss measurements on single-mode fiber optic links when used with an optical power meter. When paired with an optical fiber identifier, both models may be used for fiber identification. The LASER output is stabilized to ensure accurate test results per current TIA/EIA requirements.

The OLS7-FTTH and OLS7-3 feature a triple wavelength LASER output from a single port and are easy to operate. Each wavelength may be transmitted individually at CW or with user selectable modulated Tone. Also, each wavelength may be transmitted with Wave ID. When transmitting with Wave ID, the OLS7 will also support transmitting pairs of wavelengths in an alternating pattern and triple wavelengths in a sequential pattern. Associated with each operating condition, the designated LED indicator will illuminate to identify the currently enabled operating mode and emitted wavelength wavelength(s) along with battery charge status and external power presence.

The OLS7-FTTH model is designed specifically for today's FTTH network architectures featuring a triple wavelength LASER output from a single port: 1310 nm output for testing in the upstream direction and 1490 or 1550 nm, for testing in the downstream direction. The OLS7-3 model features 1310/1550/1625 nm triple wavelength LASER output that is used for single-mode applications, such as telecom or CATV.

The OLS7-FTTH and OLS7-3 output ports are equipped with UCI based removable adapters to allow the output connectors to be inspected and cleaned. Both models offer long battery life from common AA alkaline batteries with external AC adapter available as an option. The OLS7 is fully N.I.S.T. traceable.

Features

- Triple wavelengths from a single port
- Triple, dual, or single Wave ID, CW, Tone
- 270 Hz, 330 Hz, 1 kHz, 2 kHz Tone
- Low battery LED indicator
- Long battery life with 2 AA alkaline, optional AC adapter
- Cost-effective, easy-to-use
- Hand-held, rugged, lightweight

Applications

- Passive Optical Networks (PON) testing
- Certify SM links per TIA/EIA standards
- Fiber identification prior to splicing

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Specifications [a]

OPTICAL	MODEL OLS7-FTTH			MODEL OLS7-3		
Wavelength (±20 nm)	1310 nm	1490 nm	1550 nm	1310 nm	1550 nm	1625 nm
Emitter Type	Laser, Class I FDA 21 CFR 1040.10 and 1040.11, IEC 60825-1: 2007-03					
Spectral Width	5 nm	3 nm	5 nm	5 nm	5 nm	2 nm
Output Power	-5 dBm (typical) into 9/125 fiber					
Output Stability	±0.05 dB over 1 hour (after 15 min warm-up, after 30 sec typical)					
	±0.1 dB over 8 hours (after 15 min warm-up, after 30 sec typical)					
Tone Output	270 Hz, 330 Hz, 1 kHz, 2 kHz					
General	Models OLS7-FTTH and OLS7-3					
Available Adapters	SC FC, ST, LC					
Power	2 AA batteries, optional AC adapter					
Battery Life	Typical 72 hours (with one laser active), minimum 40 hours					
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	0.3 kg (0.66 lb)					

Note:

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

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.
OLS7-FTTH optical light source, protective rubber boot, 2 AA batteries, and carry case.	OLS7-FTTH
OLS7-3 optical light source, protective rubber boot, 2 AA batteries, and carry case.	OLS7-3

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.
OLS7-3	CAL2-00-OLS7-3	CAL2-01-OLS7-3
OLS7-FTTH	CAL2-00-OLS7-FTTH	CAL2-01-OLS7-FTTH

NOYES International Sales and Service Contact Information

Available at www.AFLglobal.com/NOYES/Contacts