



OLS2 Laser Light Source

The OLS2 laser source is a cost-effective, rugged, handheld instrument 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, the OLS2 may be used for fiber identification. The LASER output is stabilized to ensure accurate test results per current TIA/EIA requirements.

Two versions of the OLS2 are available for measurements at 1310 nm, 1550 nm. This light source offers 2 modes of operation: continuous wave (CW) and 2 kHz modulated Tone. [Laser Active], [Battery], and [External Power] indicators identify the enabled laser, battery charge status, and external power presence. The output port is equipped with FC, SC, or ST style connector. The OLS2 laser sources operate on disposable batteries or AC adapter. The OLS2 is fully N.I.S.T. traceable.

Features

- Rugged, handheld, lightweight
- Certify single-mode links per TIA/EIA standards
- CW or 2 kHz modulated Tone
- Long battery life
- Low battery indicator
- Adjustable output
- Cost-effective, easy to use
- N.I.S.T. Traceable

Ordering Information

Model	Includes
All OLS2 models	Protective rubber boot, 9V battery, manual, and carrying case.

Optical light sources and optical power meters can be packaged together as a kit.

Applications

- The OLS2 may be substituted for terminal equipment in the central office or head-end to provide a stable output for loss measurements.
- For single-mode applications, such as Telecom or CATV, the OLS2 may be coupled with an optical power meter as a test kit to perform optical loss tests at 1310, 1550 nm.
- In the modulation mode, the OLS2 applies a 2 kHz tone into the fiber. This signal is detected by the OFI-200, optical fiber identifier, to isolate specific fibers in a bundle prior to splicing or rerouting.

Specifications

Optical Specifications	OLS2-1310	OLS2-1550
Output wavelength	1310 ±20 nm	1550 ±20 nm
Output power ¹	-5 dBm	-5 dBm
Laser classification	Class 1 (FDA 21 CFR 1040.10 and 1040.11, and IEC 60825-1)	
Output connector ²	FC, SC, or ST	
Modes of operation ³	CW and 2 kHz	
Spectral width (FWHM)	5 nm (max), 1625 nm: 5 nm (typ)	
Stability	± 0.1 dB over 1 hour (after 20 min. warm-up) ± 0.15 dB over 8 hours (after 20 min. warm-up)	
General Specifications		
Power	Typical 40 hours with 9V battery, optional AC adapter	
Operating temperature	-10 to 50°C	
Storage temperature	-30 to 60°C	
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)	

1 Adjustable ±1 dB.

2 Other connectors available upon request.

3 Other modulation frequencies available.

Note: All specifications at 25°C. Specifications are subject to change. Single wavelength models are available with higher output power and other wavelengths.

