Fiber OWL / Laser OWL Test Kit

Overview

Many fiber optic network bids and Requests For Quote (RFQ) are citing cabling standards to specify the set of guidelines (such as fiber length) that the network installer must follow during the network installation. Adherence to such standards is meant to ensure the quality of the installation and guarantee that the network will perform as it was designed.

The process of testing a network installation to ensure its adherence to specified standards is called certification, and often requires hard-copy documentation as proof of adherence to standards.

The *Fiber OWL / Laser OWL Test Kit* contains the tools necessary for certifying fiber optic links against a myriad of popular cabling standards in single mode networks.

The *Fiber OWL optical power meter* is multi-mode and single mode ready, and contains a user-friendly Fiber Link Wizard that performs link budget calculation, and sets a reference value using the characteristics of the link. This reference is the PASS/FAIL threshold and is calculated against the chosen standard. Up to 900 fiber runs may be stored, and serially downloaded to a PC for report generation using our OWL Reporter software.

The Fiber OWL is available in two configurations. The Fiber OWL 2+ has a measurement range of +5 to -70 dBm, and the Fiber OWL 2C+ has a measurement range of +25 to -50 dBm.

The *Laser OWL* is our single mode light source. Its dual wavelength outputs (1310nm / 1550nm) are temperature-stabilized for accurate measurements. Three connector options are available (ST, SC, and FC). The Laser OWL is also available with 2.5mm Universal connectors, but is not included with this kit for physics reasons.

Connector styles may vary from photo

Kit Contents

Power Meter: Fiber OWL

Light Source: Laser OWL

Accessories: OWL Reporter software
Product manuals
Download cable
9-volt batteries
NIST certificate

Features

- Certification of single mode fiber links at 1310nm and 1550nm

- Data storage for up to 900 data points including run labels, fiber type, and link information including link name, date, reference power values, fiber length, and number of splices and interconnects

- Built-in loss wizard for calculation of maximum allowable loss values (link budget)

- RS-232 interface for continuous data logging, report printing, or data downloading

- OWL Reporter software for printing formatted fiber certification reports

- Absolute or relative mode for giving you instant pass/fail results

- Selectively view, delete or resample data points

Supported Cabling Standards:

EIA/TIA 568-B	ISO/IEC 11801
1000Base-SX	1000Base-LX
100Base-FX	10Base-FB
10Base-FL	FDDI
ATM-155	ATM-622
Fibre Channel	Token Ring

Also supports 2 user-definable standards

Additional Measurement Wavelengths:

850nm	980nm
1300nm	1480nm

NIST Traceable

MADE IN USA

O.W.L. Optical Wavelength Laboratories

Manufacturer of Quality Optical Fiber Test Equipment

Specifications

Fiber OWL Optical Power Meter

Detector Type	Ge (2mm)
Supported Fiber Types	62.5/125 µm multi-mode 50/125 µm multi-mode 100/140 µm multi-mode 7-9/125 µm single mode
Calibrated Wavelengths	850nm, 980nm, 1300nm / 1310nm, 1550nm
Additional Wavelengths	1480nm
Measurement Range	+5 to -70 dBm (FO2+) +25 to -50 dBm (FO-2C+)
Accuracy	±0.15 dB
Resolution	0.01 dB
Battery Life	up to 200 hours (9V)
Connector Type	2.5mm Universal
Data Storage Points	up to 900
Download Data Points	OWL Reporter Software
Power Units Displayed	dBm, dB, µW
Modes of Operation	Simple / Certification
Battery Capacity Display	Yes
Backlight	Yes
NIST Traceable	Yes
Auto-shutdown	Yes
Serial Port Diagnostic	Yes
Operating Temperature	-10 to 55 C
Storage Temperature	-30 to 70 C
Width	3.48"
Height	6.48"
Depth	1.1"
Weight	373g (12 oz.)

Laser OWL Single Mode Laser Source

Launch Method	FP Laser
Connector	ST, SC, or FC
Center Wavelength (1310nm)	1310 ±30nm
Center Wavelength (1550nm)	1550 ±30nm
Spectral Width (FWHM; 1310 / 1550 nm)	2 nm
Output Power (9µm core)	-10.0 dBm
Initial Accuracy	0.1 dB
Fiber Type	Single Mode
Battery Life	25 hrs.
Battery Capacity Display	Yes
Operating Temperature	0 to 55° C
Storage Temperature	0 to 75° C
Width	2.75"
Height	4.94"
Depth	1.28"
Weight	154g

Product manuals come in PDF format on CD. Adobe Acrobat Reader™ is required to view these documents.

Patch cables are available for an additional charge. Call 262-473-0643 for more information.

Protective rubber boots for the Fiber OWL are not yet available.