Fiber OWL 4 MM Test Kit

SKU: KIT-FO4-WSMDxx (see connector options below)

Multimode Fiber Certification 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 4 MM Test Kit* contains the tools necessary for certifying fiber optic links against a myriad of popular cabling standards in singlemode and multimode networks.

The *Fiber OWL 4 optical power meter* is multimode and singlemode 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 1000 fiber runs may be stored, then serially downloaded to a PC for report generation using our OWL Reporter software.

It also includes intelligent automated testing functions, such as automatic dual-wavelength storage and auto-wavelength recognition, which reduce testing time and human error.

The *WaveSource MM fiber optic light source* is designed for accurate testing and certification of multimode (850nm & 1300nm) networks. Its dual-wavelength outputs are temperature-stabilized for accurate measurements.

The *WaveSource MM* has a built-in auto-wavelength switching protocol designed to synchronize the wavelength of the *Fiber OWL 4* with the current output wavelength.

Three connector options are available (ST, SC, and FC), and is upgradeable to include 1310 & 1550nm singlemode sources.

NEW! 10G 10-Gigabit Ethernet Ready

Connector styles or placement may vary from photo

Features

Certification of multimode fiber links at 850nm and 1300nm

Auto-wavelength recognition and automatic data storage reduce testing time and human error

Integrated fiber optic length tester for accurate link length measurements

Data storage for up to 1000 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	10-Gigabit Ethernet
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 Power Meter Calibrated Wavelengths:

980nm   1490nm   1625nm

ASSEMBLED IN USA

N.I.S.T. Traceable

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. Contact OWL for more information.

Kit Contents

Power Meter: Fiber OWL 4   **Light Source:** WaveSource MM

Accessories: OWL Reporter software   Product manuals   Download cable   9-volt batteries
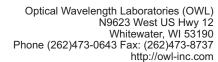NIST certificate   Carrying case   Protective rubber boots   Carrying straps

Specifications

Fiber OWL 4 Optical Power Meter

Detector Type	InGaAs
NIST Traceable Wavelengths	850nm, 1300, 1310nm, 1550nm
Additional Wavelengths	980, 1490, 1625nm
Optical Power Measurement Range	+5 to -70 dBm
Accuracy	±0.15 dB
Resolution	0.01 dB
Battery Life	up to 100 hours (9V)
Connector Type	fixed 2.5mm Universal
Data Storage Points	up to 1000
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.)

Conforms to the Harmonized European Standards EN 61326-1 and EN 61010-1.

WaveSource MM Fiber Optic Light Source

Launch Method (multimode)	LED
Connector	ST, SC, or FC
Center Wavelength (850nm)	850 +30/-10nm
Center Wavelength (1300nm)	1300 ±50 nm
Spectral Width (FWHM; 850 nm)	50nm
Spectral Width (FWHM; 1300nm)	180nm
Output Power	-20.0 dBm
Initial Accuracy	0.1 dB
Ouput Modes	Continuous Wave Modulated
Battery Life	up to 30 hrs.
Battery Type	9V alkaline
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

Conforms to the Harmonized European Standards EN 61326-1 and EN 61010-1.