Fiber OWL 4 FTTH Test Kit

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

FTTH Network 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 FTTH Test Kit*** contains the tools necessary for measuring optical loss in fiber optic networks using the ITU G.983.3, the standard used for Fiber To The Home (FTTH) 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 FTTH fiber optic light source*** contains the three wavelengths (1310, 1490, and 1550 nm) required by the ITU G.983.3 FTTH standard in a single unit, designed for accurate testing and certification of FTTH networks. Its outputs are temperature-stabilized for accurate measurements.

The ***WaveSource FTTH*** 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).

Features

Optical loss and certification of FTTH fiber links at 1310, 1490, and 1550nm

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

Optional 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 FTTH loss parameters for on-screen PASS/FAIL readings

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

Additional 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:

850nm 980nm 1300nm 1625nm

ASSEMBLED IN USA

N.I.S.T. Traceable

Kit Contents

Power Meter: Fiber OWL 4

Light Source: WaveSource FTTH

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

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.

O.W.L. MANUFACTURER OF QUALITY OPTICAL FIBER TEST EQUIPMENT

OPTICAL WAVELENGTH LABORATORIES™

Optical Wavelength Laboratories (OWL)
N9623 West US Hwy 12
Whitewater, WI 53190
Phone (262)473-0643 Fax: (262)473-8737
http://owl-inc.com

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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 FTTH Fiber Optic Light Source

Launch Method (singlemode)	FP Laser
Connector	ST, SC, or FC
Center Wavelength (1310nm) **Center Wavelength (1490nm)** **Center Wavelength (1550nm)**	1310 ±30nm 1490 ±10nm 1550 ±30nm
Spectral Width (FWHM; 1310nm) **Spectral Width (FWHM; 1490nm)** **Spectral Width (FWHM; 1550nm)**	2nm 2nm 2nm
Output Power (all wavelengths)	-10.0 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.

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