

Fiber OWL 4C

SKU: FO-4C-SDxx-HP

High-Power Optical Loss Test Set

Features

- 1mm Filtered InGaAs photodetector with 2.5mm universal (including ST, SC, and FC) connector port
- Integrated high-power dual-wavelength singlemode laser source (1310/1550nm)
- Automatic wavelength recognition (when used with an identical unit on the far end)
- Large backlit 3x1.75" graphic LCD display
- Long battery life - over 100 hours on one standard 9-volt alkaline battery
- Charger port for optional use of 9-volt re-chargeable batteries (re-chargeable battery and AC adapter not included)
- Data storage for up to 1000 data points
- Built-in loss wizard for calculation of maximum allowable loss values
- USB 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

Key Specifications

Optical Power Meter Port

Measurement range	+25 to -50 dBm
Absolute accuracy ¹	+/- 0.15dB
Calibrated wavelengths	850nm, 1300, 1310nm, 1550nm 980nm, 1490nm, 1625nm
NIST Traceable	Yes
Resolution	0.01dB
Precision ¹	+/- 0.10dB
Dimensions	6.48 x 3.48 x 1.1 in

Supported Cabling Standards:

EIA/TIA 568	ISO/IEC 11801	1000Base-SX / LX	100Base-FX	10Base-FB / FL	10-Gig Ethernet
FDDI	ATM-155 / 622	Fibre Channel	Token Ring	Also supports 2 user-defined standards	

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

1 - Over the range of +20 to -20 dBm



Singlemode Light Source Port

Launch Method (singlemode)	FP Laser
Connector	ST, SC, or FC
Center Wavelength (1310nm)	1310 ±30nm
Center Wavelength (1550nm)	1550 ±30nm
Spectral Width (FWHM; 1310nm)	2nm
Spectral Width (FWHM; 1550nm)	2nm
Output Power (singlemode)	0.0 dBm
Initial Accuracy	0.1 dB

Applications

The Fiber OWL 4C is a high accuracy, high resolution, microprocessor controlled optical power meter. The meter has a 75dB dynamic range making it ideal for both singlemode and multimode fiber testing. Its filtered detector allows for accurate testing of high power applications such as CATV and Telco.

It is much more user-friendly than previous versions of the Fiber OWL, including an optional upgrade to include fiber link length testing. When used with OWL WaveSource light sources, its auto-wavelength recognition feature detects the wavelength being received from the light source and automatically switches to that wavelength, allowing simultaneous dual-wavelength optical referencing and data storage. This feature increases productivity by decreasing testing time and human error.

It has an attractive handheld case made from high impact plastic surrounded by a protective rubber boot, a large, backlit, graphic, liquid crystal display, and 18-key keypad for easy data entry. The universal connector port accepts 2.5mm ferrule connectors, including ST, SC, and FC. A 1.25mm universal adapter is also included for connection to LC, MU, and other SFF connectors. It will operate for over 100 hours on a standard 9-volt battery and has built-in auto-shutdown.

The Fiber OWL 4C includes a built-in loss wizard that helps you easily calculate the allowable loss for the fiber runs that you will be measuring. The meter stores physical fiber information for up to eight link configurations. Link information includes: link name, date, fiber type, fiber length, connectors, splices, temperature, and calculated or user-defined reference power values. In addition, the meter will store up to 1000 measured data points with labels. Each value includes the fiber type and link.

The stored information can be selectively viewed, edited (measured again), printed, or deleted. The meter will print formatted reports of selected stored data directly using the built-in USB port, or all of the stored data can be downloaded to a computer spreadsheet or our free OWL Reporter software to produce formatted certification reports.



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.

Carrying cases and patch cables are available for an additional charge. Call 262-473-0643 for more information.

