

Fiber OWL 4 Series

SKU: FO-4 / FO-4C

Optical Power Meter

Features

InGaAs photodetector with 2.5mm universal adapter port (for ST, SC, FC, and others) and 1.25mm universal adapter port (for LC, MU, and other SFF connectors)

Multimode and singlemode ready

Upgradeable to include integrated optical fiber length testing

Automatic wavelength recognition (when used with WaveSource fiber optic light source)

High-Power version available

Large backlit 3x1.75" graphic LCD display

Long battery life - over 100 hours on one 9-volt battery

Data storage for up to 1000 data points

Built-in loss wizard for calculation of maximum allowable loss values

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



Key Specifications

Measurement range

+5 to -70 dBm (FO-4)

+25 to -50 dBm (FO-4C)

Absolute accuracy ¹

+/- 0.15dB

NIST traceable calibrated wavelengths

850nm, 1300, 1310nm, 1550nm

Additional factory calibrated wavelengths

980nm, 1490nm, 1625nm

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
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 0 to -40 dBm (FO-4) or over the range of +20 to -20 dBm (FO-4C)

Applications

The Fiber OWL 4 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.

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 fixed universal connector port accepts 2.5mm ferrule connectors, including ST, SC, and FC. It will operate for over 100 hours on a standard 9-volt battery and has built-in auto shutdown.

The Fiber OWL 4 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 links. 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 serial 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.



MADE 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.



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