

# Fiber OWL 4 ORL

SKU: FO-4-ORL

Optical Return Loss Meter / Optical Loss Test Set

## Features

- Dual-wavelength singlemode Optical Return Loss (ORL) measurements down to 68 dB
- Dual-wavelength singlemode optical loss measurement
- 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
- 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
- Also functions as a singlemode ready optical loss test set



## Applications

The Fiber OWL 4 ORL allows fiber optic professionals to quickly and accurately measure optical return loss (ORL) up to 68 dB. Several models are available to support single- or dual-wavelength measurements.

Measuring ORL with the Fiber OWL 4 ORL is very user-friendly, requiring minimal setup, and each measurement can be quickly and easily stored in the meter. Stored data is downloaded into a PC using OWL Reporter software, which prints professional hard-copy reports and stores ORL readings on the hard drive for later retrieval.

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. It will operate for over 100 hours on a standard 9-volt battery and has built-in auto shutdown.

The Fiber OWL 4 ORL also doubles as a singlemode ready optical power meter. When used with a separate fiber optic light source, its built-in loss wizard that helps you easily calculate the allowable loss for the fiber runs that you will be measuring.

When used with OWL WaveSource singlemode laser 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.

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.

## Key Specifications

### OPTICAL RETURN LOSS

Fiber Type	singlemode
Dynamic Range	68 dB
Detector Sensitivity	-67 dBm
Measurement Range	76 dB
ORL Uncertainty	± 0.5 dB @ 62.5 dB
Connector Type	APC

### GENERAL

Dimensions	6.48 x 3.48 x 1.1 in
Absolute accuracy <sup>1</sup>	+/- 0.15dB
Display Resolution	0.01dB
Precision <sup>1</sup>	+/- 0.10dB
Conforms to the Harmonized European Standards EN 61326-1 and EN 61010-1.	

1 - Over the range of 0 to -40 dBm

### OPTICAL POWER METER

Detector Type	InGaAs
Measurement range	+8 to -67 dBm
Fiber Type	singlemode
NIST Traceable	
Calibrated Wavelengths	1310nm, 1490nm, 1550nm, 1625nm

### LIGHT SOURCE

Fiber Type	singlemode
Emitter Type	FP Laser
Center Wavelength(s)	
1310nm	1310 ± 30nm
1550nm	1550 ± 30nm
Output Power	-3.0 dBm
Spectral Width	
1310nm	2nm
1550nm	2nm
Initial Accuracy	0.1 dB



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.

