

# Fiber OWL 7 Optical Power Meter

Part #: F7

Certifying Optical Power Meter

## Features

- Optical power measurement
- Auto-wavelength recognition and data storage reduces testing time and human error
- Re-chargeable Lithium Polymer battery
- Up to 50 hours continuous operation
- Includes auto-shutdown feature to conserve battery life
- High accuracy
- NIST Traceable

## When used with OWL fiber optic light sources (sold separately):

- Optical loss measurement
- Automatic wavelength switching (when used with WaveSource Pro light sources) allows for automatic dual-wavelength optical referencing and power/loss testing
- Standards-based link certification for optical fiber links
- Unlimited job configurations
- User-friendly Link Wizard with helpful color on-screen diagrams to help guide the setup process
- Color LCD indicates PASS / FAIL status based on color
- Up to 10,000 test readings can be stored in memory
- Prints official certification reports via OWLView certification software

## Upgrade options:

- Integrated length testing port for accurate end-to-end link length measurements, a critical factor for standards-based link budget calculation (model #: **F7X**)
- Integrated length tester *and* Visual Fault Locator port for near-end fault location and visual fiber identification (model #: **F7V**)



Factory located in the  
Heartland of America



## Applications

The Fiber OWL 7 (model #: **F7**) is a high accuracy, high resolution, microprocessor controlled optical power meter. The detector port has a 75dB dynamic range making it ideal for a wide array of fiber optic testing applications, including standards-based fiber link certification (when used with separate light sources; sold separately).

The unit is housed in an attractive handheld case made from high impact plastic surrounded by a protective rubber boot, includes a high-resolution color LCD display, and an intuitive keypad for convenient data entry. The universal detector port includes two adapter caps: one for 2.5mm ferrule connectors, such as SC, ST, and FC; and one for 1.25mm ferrule connectors such as LC and MDC. The unit will operate up to 50 hours on its high-capacity Lithium Polymer battery, and has built-in auto shutdown.

The power meter port is equipped with an auto-wavelength recognition feature called AUTO MODE that automatically switches the wavelength being received from compatible OWL dual-wavelength, auto-testing light sources, such as OWL WaveSource Pro series light sources (sold separately). The detector senses the auto-switching signal from the WaveSource Pro light source, then automatically switches to that wavelength accordingly. This feature allows for simultaneous dual-wavelength optical referencing and power/loss testing, which increases productivity by decreasing testing time and human error.

## When used with OWL fiber optic light sources (sold separately):

the power meter 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 an unlimited number of jobs/projects, including link name, date, fiber type, fiber length, connectors, splices, temperature, and calculated or user-defined reference power values. In addition, the meter will store thousands of measured data points with customizable run name information.

The stored information can be selectively viewed, edited (measured again), printed, or deleted. Data may be downloaded via the built-in USB download port to our free OWLView software to produce professional certification reports.



**Optical Wavelength Laboratories**

MANUFACTURER OF QUALITY OPTICAL FIBER TEST EQUIPMENT



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## FIBER OWL 7 OPTICAL POWER METER (P/N: F7)

Key Specifications	
Detector Type	InGaAs
Calibrated Wavelengths <sup>1</sup>	850, 980, 1300, 1310, 1490, 1550, 1625
Measurement Range	+5 to -70 dBm
Accuracy	±0.15 dB
Display Resolution	0.01 dB
Battery Life	Up to 50 hours (Lithium Polymer)
Detector Connector Type	2.5mm/1.25mm universal
Data Storage	Up to 10000 data points
Displayed Measurement Units	dBm, dB, mW, μW, nW
Modes of Operation	CERT, LOSS, OPM
Display Type	Hi-resolution Color LCD
Auto-shutdown	Yes
Operating Temperature	-10 to 55° C
Storage Temperature	-30 to 70° C
Dimensions	2.9 x 4.49 x 1.3 in. (72.9 x 112.3 x 31.8 mm)
Weight	12 oz. (373g)

1: Bold wavelengths are NIST Traceable

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

## Power Meter Ports



### UNIVERSAL DETECTOR PORT

Includes:  
2.5mm adapter (SC,ST, FC)  
1.25mm adapter (LC)

## Supported Cabling Standards

TIA	568-C.3	568-3.D		
ISO	11801	14763-3		
Ethernet	1G	10G	40G	100G
FTTH	Class A	Class B	Class C	
USER DEFINED	Fixed budget	Calculated budget		

Power Meter Upgrade Options	
Option	Model #:
Integrated Length Tester Only	F7X
Integrated Length Tester and Integrated Visual Fault Locator	F7V

Light Source Options						
Model #:	Description	MM: 850	MM:1300	SM: 1310	SM: 1550	VFL
WPMS	WaveSource Pro Quad	AUTO-SWITCHING		AUTO-SWITCHING		—
WPMX	WaveSource Pro MM	AUTO-SWITCHING		—	—	—
WPMV	WaveSource Pro MM/VFL	AUTO-SWITCHING		—	—	✓
WPSX	WaveSource Pro SM	—	—	AUTO-SWITCHING		—
WPSV	WaveSource Pro SM/VFL	—	—	AUTO-SWITCHING		✓

Replacement Accessories	
Description	Part #:
2.5mm Universal Adapter Cap (SC, ST, FC)	U2.5-4
1.25mm Universal Adapter Cap (LC, MU, MDC)	U1.25-4
USB Download Cable	USB-1
USB Charging Block	WS-USB

Cleaning Accessories	
Description	Part #:
Patch Cable Ferrule Connector Cleaner	FCC-2
Replacement Tape Reel for FCC-2	FCC-2R
2.5mm In-Adapter Ferrule Connector Cleaner	OC-2
1.25mm In-Adapter Ferrule Connector Cleaner	OC-1

Fiber Optic Inspection Microscopes	
Description	Part #:
Direct-view Field Microscope	FS400
USB Fiber Optic Videoscope	VS-400-U



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