

**5 YEAR WARRANTY**



OPM5 Optical Power Meter

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OPM4 Optical Power Meter

## NOYES® OPM5 and OPM4 Optical Power Meters

### Features

- Rugged, dependable, tools backed with 5-Year Warranty
- Single-mode and multimode applications
- Wave ID supports testing up to three wavelengths simultaneously
- Field swappable connector adapters provide flexibility
- Large display visible in direct sunlight. Backlight for dim conditions
- Stores optical reference at each calibrated wavelength
- Detection of multiple test tones for fiber identification
- Equipped with five-minute auto-off feature
- Long battery life from globally available 2 x AA (Mignon) batteries.
- Fully N.I.S.T. traceable.

### Applications

- Passive Optical Networks (PON) testing
- Save test data for Report Generation (OPM5)
- OPM(5/4)-4D (Filtered-InGaAs) for high power (+26 dBm) CATV Broadband networks or DWDM system applications
- OPM(5/4)-3D (InGaAs) for Telecommunications networks
- OPM(5/4)-2D (Ge) for Premises LAN/WAN multimode or single-mode networks
- OPM4-1D (Silicon) for multimode / plastic optical fiber applications

With more than 25 years of experience in the optical testing industry and thousands of units in use around the world, AFL is a trusted supplier of optical power meters. Backed by 5-year product warranties, these are the quality products you can trust.

### Designed for use in outside plant environments

- Splash resistant controls
- Withstands one-meter drop test
- Controls designed for easy operation with gloves
- Field swappable optical adapters allow access for cleaning optical port and supports multiple connector styles
- Efficient design provides long test time from globally available AA batteries

### OPM5 with Data Storage of Test Results

File Management system allows technicians to organize test results into multiple files and transfer stored results via USB to a PC for analyzing, generating reports, and printing. The supplied powerful PC Analysis and Reporting Tool (TRM® 2.0) allows users to apply industry-standards-based rules to test results and create comprehensive certification reports. Users can generate network Pass/Fail results demonstrating compliance to industry standards and illustrate headroom.

# NOYES® OPM5 and OPM4 Optical Power Meters

## Specifications <sup>a</sup>

OPTICAL				
MODEL	OPM5-4D, OPM4-4D	OPM5-3D, OPM4-3D	OPM5-2D, OPM4-2D	OPM4-1D
Calibrated Wavelengths	850, 980, 1300, 1310, 1490, 1550, 1625 nm	850, 1300, 1310, 1490, 1550, 1625 nm	850, 1300, 1310, 1490, 1550 nm	650, 660, 780, 850 nm
Detector Type	Filtered InGaAs	InGaAs	Germanium (Ge)	Silicon (Si)
Measurement Range	+26 to -50 dBm	+10 to -75 dBm	+6 to -60 dBm	+6 to -70 dBm
Tone Detect Range	+6 to -30 dBm +6 to -25 dBm for 850 nm	+10 to -50 dBm +10 to -45 dBm for 850 nm	+6 to -50 dBm +6 to -45 dBm for 850 nm	+6 to -45 dBm
Wavelength ID Range	+6 to -30 dBm +6 to -25 dBm for 850 nm	+10 to -50 dBm +10 to -45 dBm for 850 nm	+6 to -50 dBm +6 to -45 dBm for 850 nm	—
Accuracy <sup>b</sup>	±0.25 dB			
Resolution	0.01 dB			
Measurement Units	dB, dBm, µW			
GENERAL				
Power	2 x AA batteries, accepts standard mini-USB power adapter			
Adapter Caps	Order with one: 1.25 mm Universal, 2.5 mm Universal, FC, SC, ST, LC. Other connector adapters available			
Battery Life	300 hours			
Operating Temperature	-10 °C to 50 °C, 90 % RH (non-condensing)			
Storage Temperature	-30 °C to 60 °C, 90 % RH (non-condensing)			
Size (H x W x D)	14.0 x 8.1 x 3.8 cm (5.5 x 3.2 x 1.5 in)			
Weight	0.26 kg (0.58 lb)			

**Notes:**

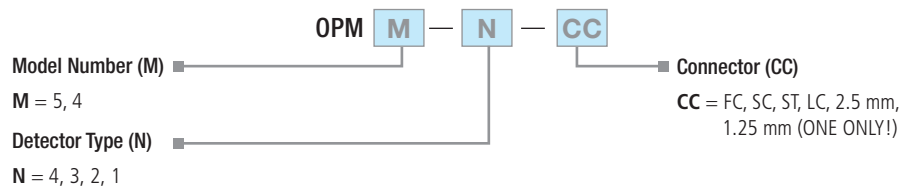
- a. All specifications valid at 25°C unless otherwise specified.
- b. Accuracy measured at 25 °C and -10 dBm per N.I.S.T. standards.

## Ordering Information

All OPM models include optical power meter, 2 AA batteries, protective rubber boot, customer specified adapter cap, and carry case. OPM5 models also include TRM® 2.0 software (Basic License). Quick Ref Guides (PDF format) are available in Chinese Simplified, Chinese Traditional, French, German, Italian, Japanese, Korean, Portuguese, Spanish and Turkish on [www.AFLglobal.com/OPMORG](http://www.AFLglobal.com/OPMORG).

When placing an order, select options as follows:

- Model Number (M),
- Detector Type (N),
- Connector Configuration (CC)



MODEL	CALIBRATED WAVELENGTHS (nm)										DETECTOR TYPE	MEASUREMENT RANGE (dBm)	PC SOFTWARE	
	650	660	780	850	980	1300	1310	1490	1550	1625				
OPM5-4D				◆	◆			◆	◆	◆	◆	InGaAs	+26 to -50	TRM 2.0
OPM5-3D				◆		◆	◆	◆	◆	◆		InGaAs	+10 to -75	TRM 2.0
OPM5-2D				◆		◆	◆	◆	◆			Germanium	+6 to -60	TRM 2.0
OPM4-4D				◆	◆			◆	◆	◆	◆	InGaAs	+26 to -50	
OPM4-3D				◆		◆	◆	◆	◆	◆		InGaAs	+10 to -75	
OPM4-2D				◆		◆	◆	◆	◆			Germanium	+6 to -60	
OPM4-1D	◆	◆	◆	◆								Silicon	+6 to -70	

**NOYES®  
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**OPM Accessories**

DESCRIPTION	AFL NO.		
<b>ADAPTER CAPS</b>			
2.5 mm Universal (accepts FC, SC, and ST ferrules)	8800-00-0214		
1.25 mm Universal (accepts LC and MU ferrules)	8800-00-0224		
FC	8800-00-0200		
SC	8800-00-0209		
ST®	8800-00-0202		
LC simplex/duplex	8800-00-0225		
E-2000	8800-00-0221		
MU simplex	8800-00-0226		
2.5 mm open Universal. Accepts SC duplex, OptiTap connector for measuring optical power.	8800-00-0219		
SMA	8800-00-0203		
D4	8800-00-0201		
Biconic	8800-00-0204		
DIN 47256	8800-00-0211		
Radial PFO/VFO	8800-00-0212		
<b>ADAPTERS FOR PLASTIC OPTICAL FIBER (POF)</b>			
1000 mm bare fiber (plastic)	8800-00-0223		
HP-HFBR-45XX POF Universal	8800-00-0271PR		
<b>USB CABLE</b>			
USB Cable: PC (USB-A) to OPM (USB-MINI B): • Connect OPM to PC for data upload to TRM® 2.0 • External Power for OPM (when used with customer supplied USB-A power source)	<b>OPM5 MODEL</b>	<b>OPM4 MODEL</b>	6000-00-0024MR
	Connect to PC and External power	External power only	

**Calibration Plans**

In keeping with ISO certification guidelines, AFL recommends three year calibration intervals for NOYES OPM5 and OPM4 Series Optical Power Meters as guidance for our customers. It is the responsibility of individual customers to determine actual calibration intervals used align with internal corporate ISO directives. Additionally, contractors providing services may need to maintain annual calibrations per contractual agreements with their customers.

AFL offers calibration plans for customers preferring annual calibration for their Test and Inspection instruments. Annual calibrations performed at NOYES calibration facilities ensure your equipment is operating at NOYES specifications. Prepaid Cal plans save you money by offering two annual calibrations at a discounted price.

MODEL	AFL NO.
OPM5-4	CAL2-00-OPM5-4
OPM5-3	CAL2-00-OPM5-3
OPM5-2	CAL2-00-OPM5-2
OPM4-4	CAL2-00-OPM4-4
OPM4-3	CAL2-00-OPM4-3
OPM4-2	CAL2-00-OPM4-2
OPM4-1	CAL2-00-OPM4-1



**NOYES International Sales and Service Contact Information**

Available at [www.AFLglobal.com/NOYES/Contacts](http://www.AFLglobal.com/NOYES/Contacts)