

5 YEAR WARRANTY



OPM5 Optical Power Meter

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.

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OPM4 Optical Power Meter

OPM5 and OPM4 Optical Power Meters

Specifications ^a

| 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 ^b | ±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, 95 % RH (non-condensing) | | | |
| Storage Temperature | -30 °C to 60 °C, 95 % 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:

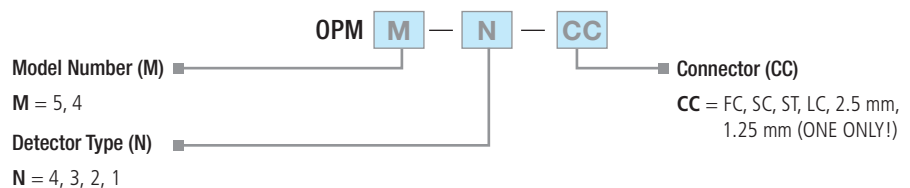
- All specifications valid at 25°C unless otherwise specified.
- Accuracy measured at 25 °C and -10 dBm per N.I.S.T. standards.

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.

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 | |

OPM5 and OPM4 Optical Power Meters

OPM Accessories

| DESCRIPTION | AFL NO. | | |
|--|----------------------------------|---------------------|----------------|
| ADAPTER CAPS | | | |
| 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 | | |
| ADAPTERS FOR PLASTIC OPTICAL FIBER (POF) | | | |
| 1000 mm bare fiber (plastic) | 8800-00-0223 | | |
| HP-HFBR-45XX POF Universal | 8800-00-0271PR | | |
| USB CABLE | | | |
| 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) | OPM5 MODEL | OPM4 MODEL | 6000-00-0024MR |
| | Connect to PC and External power | External power only | |



International Sales and Service Contact Information

Available at www.AFLglobal.com/Test/Contacts