



OPM 5 Optical Power Meter

The OPM 5 optical power meter may be used to measure optical power in Premises, Telco, or Broadband fiber optic networks. When used with an LED or Laser light source, the OPM 5 also measures insertion loss of multimode or single-mode cables. The OPM 5 offers Wave ID, automatic wavelength identification and switching, when used with the OLS 1 Dual, OLS 2 Dual, or OLS 4 with Wave ID feature. Multiple test Tone detection is provided for fiber identification. The OPM 5 stores optical references for each calibrated wavelength. An easy to read Dual Wavelength LCD display with Backlight shows measured power [dBm or μ W] or insertion loss [dB], calibrated wavelengths, tone signal [Hz], wavelength ID, and the battery charge status. Up to 500 records per wavelength of power or insertion loss measurements may be stored in internal non-volatile memory. Using the supplied Windows® compatible software and USB connection, test records may be transferred to a PC for storage, display, printing, and analysis. In addition to being powered by two AA alkaline, the OPM 5 can be powered by optional AC adapter and/or rechargeable NiMH battery pack. The OPM 5 optical input port accepts Noyes thread-on style adapter caps. Adapter caps are required for operation and must be ordered separately. The OPM 5 is fully N.I.S.T. traceable.

Features

- Rugged, handheld, lightweight
- Multimode or single-mode applications
- Premises (Ge), Telco (InGaAs), and Broadband (+26 dBm) models
- Wave ID - automatic wavelength identification and switching
- Passive Optical Networks (PON) testing
- Dual Wavelength testing
- 270 Hz, 330 Hz, 1 kHz, and 2 kHz Tone detection
- Large LCD with Backlight
- Power measurements in dBm or μ W; insertion loss in dB
- Reference power level storage
- Up to 500 test records per wavelength storage and download
- USB port for download of stored records
- Free Windows® compatible software to view, print, and archive test records
- AA alkaline, optional rechargeable NiMH battery pack or AC adapter
- Battery Gauge
- N.I.S.T traceable

Specifications

Optical	OPM 5-2D	OPM 5-3D	OPM 5-4D
Calibrated wavelengths (nm)	850, 1300, 1310, 1550	850, 1300, 1310, 1550, 1625	850, 980, 1310, 1490, 1550, 1625
Detector type	Germanium (Ge)	InGaAs	Filtered InGaAs
Measurement range (dBm)	+6 to -60	+6 to -70	+26 to -50
Tone detect range (dBm)	+6 to -50 +6 to -45 for 850nm	+6 to -50 +6 to -45 for 850nm	+6 to -30 +6 to -25 for 850nm
Wavelength ID range (dBm)	+6 to -50 +6 to -45 for 850nm	+6 to -50 +6 to -45 for 850nm	+6 to -30 +6 to -25 for 850nm
Accuracy (dB)*	± 0.25		
Resolution (dB)	0.01		
Measurement units	dB, dBm, μ W		
General			
Power	2 x AA batteries, optional NiMH or AC adapter		
Battery life (2 x AA)	300 hours		
Operating temperature	-10 to 50°C, 90% RH (non-condensing)		
Storage temperature	-30 to 60°C, 90% RH (non-condensing)		
Size (H x W x D)	5.5 x 3.2 x 1.5 in (14.0 x 8.1 x 3.8 cm)		
Weight	0.58 lb (0.26 kg)		

*Accuracy measured at 25°C and -10 dBm per N.I.S.T. standards.
All specifications at 25°C

Ordering Information

Model	Includes
All OPM 5 models	Carry case, USB cable, Windows® compatible software, AA batteries, protective rubber boot, and manual.

Optical light sources and optical power meters can be packaged together as a kit.



Adapter Caps for OPM ports, OFS 300-200, and VS 300

Noyes standard thread-on adapter caps are used to mate non-angled single-fiber and dual-fiber connectors to optical power meter ports on our OPM, T400, T500B, and ORL 3B series test sets, and inspection ports on Noyes OFS 300-200C and VS 300 microscopes.

Model	Description
8800-00-0224	1.25 mm Universal
8800-00-0214	2.5 mm Universal
8800-00-0200	FC
8800-00-0209	SC
8800-00-0202	ST
8800-00-0219	OptiTap 2.5 mm (for OPM ports only!)
8800-00-0221	E-2000
8800-00-0204	Biconic
8800-00-0203	SMA
8800-00-0225	LC Simplex/Duplex
8800-00-0212	Radial PFO/VFO
8800-00-0210	ESCON
8800-00-0211	DIN 47256
8800-00-0205	FDDI (for OPM ports only!)
8800-00-0201	D4
8800-00-0223	1000 µm bare fiber (plastic)
8800-00-0226	MU Simplex
8800-00-0230	MT-RJ (A side only)
8800-00-0231	MT-RJ (A side or B side)

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