



OPM5 Optical Power Meter

The OPM5 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 OPM5 also measures insertion loss of multimode or single-mode cables. The OPM5 offers Wave ID, automatic wavelength identification and switching, when used with the OLS1 Dual, OLS2 Dual, or OLS4 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 OPM5 can be powered by optional AC adapter and/or rechargeable NiMH battery pack. The OPM5 optical input port accepts Noyes thread-on style adapter caps. Adapter caps are required for operation and must be ordered separately. The OPM5 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	OPM5-2D	OPM5-3D	OPM5-4D
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.