



OPM 4 Optical Power Meter

The OPM 4 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 4 also measures insertion loss of multimode or single-mode cables. The OPM 4 offers Wave ID, automatic wavelength identification and switching, when used with the OLS 1 Dual or OLS 2 Dual or OLS 4 with Wave ID feature. Multiple test Tone detection is provided for fiber identification. The OPM 4 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. In addition to being powered by two AA alkaline, the OPM 4 can be powered by optional AC adapter and/or rechargeable NiMH battery pack. The OPM 4 optical input port accepts Noyes thread-on style adapter caps. Adapter caps are required for operation and must be ordered separately. The OPM 4 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
- AA alkaline, optional rechargeable NiMH battery pack
- Battery Gauge
- N.I.S.T traceable

Specifications

Optical	OPM 4-1D	OPM 4-2D	OPM 4-3D	OPM 4-4D
Calibrated wavelengths (nm)	660, 780, 850	850, 1300, 1310, 1550	850, 1300, 1310, 1550, 1625	850, 980, 1310, 1490, 1550, 1625
Detector type	Silicon (Si)	Germanium (Ge)	InGaAs	Filtered InGaAs
Measurement range (dBm)	+6 to -70	+6 to -60	+6 to -70	+26 to -50
Tone detect range (dBm)	+6 to -45	+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 -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			
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 4 models	Carry case, AA batteries, protective rubber boot, and manual.

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

