



OPM4 Optical Power Meter

The OPM4 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 OPM4 also measures insertion loss of multimode or single-mode cables. The OPM4 offers Wave ID, automatic wavelength identification and switching, when used with the OLS1 Dual or OLS2-Dual or OLS4 with Wave ID feature. Multiple test Tone detection is provided for fiber identification. The OPM4 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 OPM4 can be powered by optional rechargeable NiMH battery pack. The OPM4 optical input port accepts Noyes thread-on style adapter caps. Adapter caps are required for operation and must be ordered separately. The OPM4 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
- Multiple-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	OPM4-1D	OPM4-2D	OPM4-3D	OPM4-4D
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 OPM4 models	Carry case, AA batteries, protective rubber boot, and manual.

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

