



OPM4 Optical Power Meter

The Noyes OPM4 from AFL Telecommunications is a handheld optical power meter designed for measuring optical power in Premises, Telco, or Broadband networks and for performing insertion loss measurements on multimode or single-mode fiber optic links.

The OPM4 features automatic wavelength identification and switching (Wave ID) when used with Noyes OLS series light sources, multiple test Tone detection for fiber identification, and stores optical references for each calibrated wavelength. A large dual-wavelength LCD display with backlight shows measured power [dBm or μ W] or insertion loss [dB], calibrated wavelengths [nm], tone signal [Hz], wavelength ID, and estimated remaining battery life.

The OPM4 optical input port accepts a variety of Noyes thread-on style adapter caps (ordered separately) to meet a wide range of testing requirements. The OPM4 offers a five-minute auto-off feature and long battery life from common AA alkaline batteries.

The OPM4 is fully N.I.S.T. traceable.

Features

- Handheld, rugged, lightweight
- Multimode or single-mode applications
- Wave ID (auto identification & switching)
- Multiple-wavelength testing
- 270Hz, 330Hz, 1kHz, 2kHz Tone detection
- Large LCD with backlight
- Power measurements in dBm or μ W; insertion loss in dB
- Reference power level storage
- Automatic power-off function
- Battery gauge
- Long battery life with 2 x AA alkaline
- N.I.S.T traceable

Application

- Premises (Ge), Telco (InGaAs), and Broadband (+26 dBm) models
- Passive Optical Networks (PON) testing

Specifications

OPTICAL	OPM4-1D	OPM4-2D	OPM4-3D	OPM4-4D
Calibrated wavelengths	660, 780, 850 nm	850, 1300, 1310, 1550 nm	850, 1300, 1310, 1550, 1625 nm	850, 980, 1310, 1490, 1550, 1625 nm
Detector type	Silicon (Si)	Germanium (Ge)	InGaAs	Filtered InGaAs
Measurement range	+6 to -70 dBm	+6 to -60 dBm	+10 to -75 dBm	+26 to -50 dBm
Tone detect range	+6 to -45 dBm	+6 to -50 dBm	+10 to -50 dBm	+6 to -30 dBm
Wavelength ID range	—	+6 to -45 dBm for 850 nm	+10 to -45 dBm for 850 nm	+6 to -25 dBm for 850 nm
Accuracy*	± 0.25 dB			
Resolution	0.01 dB			
Measurement units	dB, dBm, μ W			
GENERAL				
Power	2 x AA batteries			
Battery life	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)	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)			

* 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	OPM4 optical power meter, 2 x AA batteries, protective rubber boot, user's guide, and carry case.

