



OPM5 Optical Power Meter

The OPM5 from AFL Telecommunications is a full-featured, 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 OPM5 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 and up to 500 records per wavelength of power or insertion loss measurements. Using the supplied Windows® compatible software and USB connection, test records are transferred to a PC for analysis, printing, and storage. 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 OPM5 optical input port accepts a variety of Noyes thread-on style adapter caps (ordered separately) to meet a wide range of testing requirements. The OPM5 offers a five-minute auto-off feature and long battery life from common AA alkaline batteries with external AC adapter available as an option.

The OPM5 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
- Up to 500 records per wavelength storage
- USB port for download of stored records
- Windows® compatible software to view, print, and archive stored records
- Automatic power-off function
- Battery gauge
- Long battery life with 2 x AA alkaline, optional AC adapter
- N.I.S.T traceable

Application

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

Specifications

OPTICAL	OPM5-2D	OPM5-3D	OPM5-4D
Calibrated wavelengths	850, 1300, 1310, 1550 nm	850, 1300, 1310, 1550, 1625 nm	850, 980, 1310, 1490, 1550, 1625 nm
Detector type	Germanium (Ge)	InGaAs	Filtered InGaAs
Measurement range	+6 to -60 dBm	+10 to -75 dBm	+26 to -50 dBm
Tone detect range	+6 to -50 dBm +6 to -45 dBm for 850nm	+10 to -50 dBm +10 to -45 dBm for 850nm	+6 to -30 dBm +6 to -25 dBm for 850nm
Wavelength ID range	+6 to -50 dBm +6 to -45 dBm for 850nm	+10 to -50 dBm +10 to -45 dBm for 850nm	+6 to -30 dBm +6 to -25 dBm for 850nm
Accuracy*	± 0.25 dB		
Resolution	0.01 dB		
Measurement units	dB, dBm, μ W		
GENERAL			
Power	2 x AA batteries, optional AC adapter		
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 OPM5 models	OPM5 optical power meter, 2 x AA batteries, protective rubber boot, USB cable, Windows® compatible software and user's guide, OPM5 user's guide, and carry case.

