Test & Inspection

OPM4 Optical Power Meter

The Noyes OPM4 is a hand-held optical power meter designed for measuring optical power in premise, Telco, or broadband networks and for performing insertion loss measurements on multimode or single-mode fiber optic links.

When used with Noyes OLS series light sources from AFL, the OPM4 offers automatic wavelength identification and switching - Wave ID feature that automatically detects and sets the wavelength(s), preventing setup and measurement errors. It significantly increases efficiency and reduces technician errors—and saves testing time—by eliminating the need to test each wavelength individually. The OPM4 stores optical references for each calibrated wavelength and offers multiple test tone detection for fiber identification.

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

- Multimode or single-mode applications
- Wave ID (auto identification and switching)
- Multiple-wavelength testing
- 270Hz, 330Hz, 1kHz, 2kHz Tone detection
- Large LCD with backlight
- Power measurements in dBm or µW; insertion loss in dB
- Reference power level storage
- Automatic power-off function
- Battery gauge
- Long battery life with 2 x AA alkaline
- Hand-held, rugged, lightweight

Applications

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

Specifications and descriptions are subject to change without prior notice.

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Specifications

OPTICAL	OPM4-1D	OPM4-2D	OPM4-3D	OPM4-4D
Calibrated Wavelengths	660, 780, 850 nm	850, 1300, 1310, 1490, 1550 nm	850, 1300, 1310, 1490, 1550, 1625 nm	850, 980, 1300, 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 +6 to -45 for 850 nm	+10 to -50 dBm +10 to -45 for 850 nm	+6 to -30 dBm +6 to -25 for 850 nm
Wavelength ID Range	—	+6 to -50 dBm +6 to -45 dBm for 850 nm		+6 to -30 dBm +6 to -25 dBm for 850 nm
Accuracy*	± 0.25 dB			
Resolution	0.01 dB			
Measurement Units	dB, dBm, µW			
GENERAL				
Power	2 x AA batteries			
Battery Life	300 hours			
Operating Temp.	-10 to 50°C, 90% RH (non-condensing)			
Storage Temp.	-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 25ºC 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, and carry case.

Note: Test jumpers and connector adapters are required for operation (purchased separately). Test jumpers with a variety of connector styles and fiber types and adapter caps for most common connectors may be purchased from AFL.

Authorized Channel Partner

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