

Test and Inspection



NOYES® 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, 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
- 270 Hz, 330 Hz, 1 kHz, 2 kHz Tone detection
- Large LCD with backlight
- Power measurements in dBm or μ W; insertion loss in dB
- Reference power level storage
- Power externally via USB port
- Automatic power-off function
- Battery gauge
- Long battery life with 2 AA alkaline
- Hand-held, rugged, lightweight

Applications

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

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Specifications are subject to change without notice.

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Specifications ^a

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 ^b	±0.25 dB			
Resolution	0.01 dB			
Measurement Units	dB, dBm, µW			
GENERAL				
Power	2 x AA batteries, accepts standard mini-USB charger			
Adapter Caps	2.5 mm Universal Included for FC, ST, SC Connector specific adapters available			
Battery Life	300 hours			
Operating Temperature	-10 °C to 50 °C, 90 % RH (non-condensing)			
Storage Temperature	-30 °C 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)			

Notes:

- a. All specifications valid at 25°C unless otherwise specified.
b. Accuracy measured at 25°C and -10 dBm per N.I.S.T. standards.

Accessories

DESCRIPTION	AFL NO.
FC adapter	8800-00-0200
SC adapter	8800-00-0209
ST® adapter	8800-00-0202
LC adapter	8800-00-0225

* See www.AFLglobal.com for full list of adapter caps



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Ordering Information

INCLUDES	AFL NO.
OPM4 optical power meter, 2 AA batteries, protective rubber boot, 2.5 mm Universal adapter cap and carry case.	All OPM4 models

Calibration Plans

AFL recommends annual calibrations on NOYES Test and Inspection products. Prepaid Cal plans offer two annual calibrations at a discounted price, a convenient calibration expiration email service, express calibration services and access to the NOYES product knowledge base. Cal Plus plans offer the same services as the Cal plans with the addition of a two year extended warranty (three years total coverage).

MODEL	2 YR CAL PLAN	2 YR CAL PLUS PLAN
	AFL NO.	AFL NO.
OPM4-1D	CAL2-00-OPM4-1	CAL2-01-OPM4-1
OPM4-2D	CAL2-00-OPM4-2	CAL2-01-OPM4-2
OPM4-3D	CAL2-00-OPM4-3	CAL2-01-OPM4-3
OPM4-4D	CAL2-00-OPM4-4	CAL2-01-OPM4-4