



NOYES® **OPM4-FTTx PON Power Meter**

The NOYES OPM4-FTTx from AFL is designed to measure optical power in FTTH and other passive optical networks (PONs) that use 1490 nm for downstream data and 1550 nm for downstream video traffic. In addition, the OPM4-FTTx provides an integrated Visual Fault Locator (VFL) - 650 nm (red) laser for short-range fault location and connectivity testing.

Equipped with wavelength filters and a dual photo detector, the OPM4-FTTx can separately and simultaneously measure 1490 and 1550 nm power at the ONT or other points in an FTTx PON. A large, dual-wavelength LCD display with backlight shows power at both wavelengths in units of dBm or μ W. The "set reference" feature may be used to measure the difference between two power (dBm) levels, in units of dB measured at different parts of the network.

The power meter and VFL ports accept Noyes thread-on style adapter caps and are compatible with angled or non-angled connectors. The OPM4-FTTx offers an automatic power shut-off feature, long battery life from standard AA alkaline batteries, and is fully N.I.S.T. traceable.

Features

- BPON, GPON, and EPON compatible
- Simultaneous power measurement at 1490 and 1550 nm
- Power shown in units of dBm or μ W
- Comparison of power levels in dB
- Integrated VFL
- Auto power shut-off feature
- Dual-wavelength, sunlight readable LCD display
- Compatible with APC or UPC connectors
- Standard alkaline AA batteries
- Handheld, rugged, lightweight
- N.I.S.T traceable

Applications

- ONT splitter installation testing
- Fault-locating drop cables and F2 fibers from FDH to ONT

NOYES®
OPM4-FTTx PON Power Meter

Specifications ^a

POWER METER	
Calibrated Wavelengths	1490 nm, 1550 nm
Signal Format	CW or downstream BPON, GPON, or EPON
Detector Type	Filtered InGaAs
Measurement Range	+10 to -50 dBm @ 1490 nm; +20 to -50 dBm @ 1550 nm
Accuracy ^b	±0.5 dB (±0.35 dB typical)
Resolution	0.01 dB
Measurement Units	dB, dBm, µW
VFL LASER	
Output Power (typical)	0.8 mW
Wavelength (nominal)	650 nm
Safety	Class II, FDA 21 CFR 1040.10 & 1040.11, IEC 60825-1: 2007-3
GENERAL	
Power	2 x AA batteries
Battery Life (typical)	Power meter - 100 hours; Power meter (backlight on) - 16 hours; Power meter and VFL - 6 hours; Power meter (backlight on) and VFL - 5 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. At calibration power levels of approximately -5 dBm for 1550 nm and -10 dBm for 1490 nm.

Ordering Information

INCLUDES	AFL NO.
OPM4-FTTx PON power meter, 2 x AA batteries, protective rubber boot, SC adapter for power meter port, 2.5 mm universal adapter for VFL port, user's guide, and carry case.	OPM4-FTTx





Authorized Channel Partner



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