

CertiFiber™ Max

Loss/Length/Polarity Module

Product Specifications

General Safety Information Specifications are in the printed Safety Information document that ships with the Product and at www.fluke.com.

Optical Power Meter - Simplex

Specifications apply at 23 °C, unless otherwise noted.

Parameter	Singlemode
Input Connector	Interchangeable Uniport adapter (LC standard)
Detector Type	InGaAs
Supported Fiber Type	Singlemode 9/125 µm
Calibrated Wavelengths	1310 nm, 1550 nm
Power Measurement Range	+5 dBm to -45 dBm
Power Measurement Uncertainty^[1]	< ±0.35 dB
Power Measurement Linearity^{[1],[2]}	±0.10 dB
Power Measurement Repeatability	±0.02 dB
Recommended Calibration Interval	1 year

[1] Under the following conditions:

- For calibrated wavelengths. Power level 10 µW (-20 dBm), continuous wave (CW) for absolute power.
- Divergent beam, NA = 0.20 for 50/125 µm and NA = 0.14 for 9/125 µm
- Ambient temperature 23 °C ± 3 °C
- FC/UPC connector with ceramic ferrule
- After a 15-minute warm-up
- Traceable to SI
- Based on calibration and metrology requirements.

[2] For the measurement range -5 dBm to -40 dBm.

Optical Power Meter - Multifiber

Specifications apply at 23 °C, unless otherwise noted.

Parameter	Singlemode
Input Connector Adapter	Interchangeable Uniport adapter (MPO12 pinned standard)
Detector Type	16 InGaAs photodiodes.
Supported Fiber Type	Singlemode 9/125 μ m
Calibrated Wavelengths	1310 nm, 1550 nm
Power Measurement Linearity^[1]	± 0.10 dB
Power Measurement Uniformity^[2]	± 0.1 dB
Loss Measurement Budget	10 dB
Power Measurement Repeatability	± 0.02 dB
Recommended Calibration Interval	1 year
[1] For the measurement range -12 dBm to -24 dBm range (Singlemode). All photodiodes, over the measurement range. After a 15-minute warmup. [2] Maximum variation between any one detector when compared to any of the other detectors.	

Optical Sources - Multifiber Output

Specifications apply at 23 °C, unless otherwise noted.

Parameter	Singlemode
Output port	Interchangeable Uniport adapter (MPO16 APC pinned standard)
Fiber Type	9/125 μ m
Central Wavelengths	1310 nm $\pm$ 20 nm 1550 nm $\pm$ 20 nm
Emitter Type	Fabry-Perot laser
Spectral Width^[1]	≤ 5 (1310 nm and 1550 nm)
Output Power^[2]	≤ -12 dBm, ≥ -14 dBm
Power Stability^[3]	± 0.10 dB
Maximum Length Measurement	up to 25 km
Length Measurement Uncertainty	± 1 m + 1 % of length
[1] RMS for Fabry Perot lasers [2] IEC 60825-2, Class I, CDRH [3] At constant temperature, relative to power level after 15-minute warm up, compliant for 8 hours.	

Visual Fault Locator

Connector	Integrated into Output port
Total Output Power	> -5 dBm < 0 dBm, continuous wave, at the end of 9/125 μ m patch cord for Singlemode source
Operating Wavelength	635 nm nominal
Output Modes	Continuous, pulsed blink frequency (1 Hz)
Laser Safety	Class II CDRH