



PowerBlade-T

Terminating Power Meter

Key Features

- Large-area detector power meter
- Suitable for high power measurements up to 23 dBm
- Available with either large dynamic range or high sensitivity
- Equipped with an external trigger input

Ordering Information

Mainframe: **MTP1000 | MTPmini**

PowerBlade: PowerBlade-T - X - XX - XX - XX

Number of power meters

2 = 2 power meters

4 = 4 power meters

Wavelength Band

BB = Broadband

Connector Type

FC = FC

SC = SC

Fiber Type

HP = High Power

HS = High Sensitivity

Example: PowerBlade - T - 2 - BB - HP - FC

Technical Specifications

General Specifications	PowerBlade
Dimensions (HxWxD)	130 mm x 40mm x 305 mm (5.1" x 1.6" x 12")
Weight	~ 1 kg (~2.2 lbs)
Operating temperature range	5 °C to 45 °C (41 °F to 113 °F)
Storage temperature range	-40 °C to 70 °C (-40 °F to 158 °F)

Band	High Power	High Sensitivity
Optical connector type	FC or SC	
Number of channels	2 or 4	
Wavelength range	750 nm - 1700 nm	
Power	-65 dBm to +23 dBm	-80 dBm to +10 dBm
Sensor	InGaAs wide area detector	
Uncertainty ¹	±2.5% (850±10 nm, 1310±30 nm, 1510-1630 nm)	
Total Uncertainty ^{2,3}	±4.5%	
Linearity ³	±0.02 dB ±3 pW -50 to 10 dBm	±0.02 dB ±3 pW -60 to +0 dBm
Return loss ⁴	> 50 dB	
Average time of monitor power meter	1 ms to 900 s	
Data logging capability	2,000 points per port	
External trigger	Yes	

Notes: ¹ Reference conditions: – Power level 10 µW (–20 dBm), continuous wave (CW) – Fiber 50 µm graded-index, NA = 0.2 – Ambient temperature 23 °C ± 5 °C – On day of calibration (add ± 0.3% for aging over one year, add ± 0.6% over two years) – Spectral width of source < 10 nm (FWHM) – Wavelength setting at power sensor must correspond to source wavelength ± 0.4 nm. ² Operating conditions: – Fiber ≤ 50 µm, NA ≤ 0.2 – Connectors with 2.5 mm ferrule with flat face (fiber tip offset not more than 0.3 mm from 2.5 mm cross-section) with straight or angled polish – Within one year after calibration, add 0.3% for second year – Operating temperature range as specified, humidity: Non-condensing. ³ Excluding noise and drift. ⁴ Wavelength 1310 nm ± 30 nm and 1550 nm ± 30 nm, standard single mode fiber, angled connector 8°, T=23 °C ± 5 °C.
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To find out more, get in touch with us today.

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