

matrIQ-Power-1401

# matrIQ-Power™ 1400 Series Optical Power Meter

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## PRELIMINARY SPEC SHEET

Coherent Solutions' matrIQ-Power 1400 Series optical power meter provides fast monitoring of signal power from -60 to +10dBm and broad wavelength range of 750 – 1700 nm. With a logarithmic amplifier, it avoids gain-jumps faced by multi-stage linear amplifier power meters.

matrIQ-Power has a stackable, space-saving design and intuitive software controls make it a perfect choice for the optical lab or test bench

  
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solutions  
complexity made simple.

# Features

- 2 or 4-channel optical power meter in a compact design
- Fast monitoring of signal power from -60 to +10dBm
- Broad wavelength range of 750 – 1700 nm
- Power meter linearity of  $\pm 0.1$  dB

## Technical Specifications

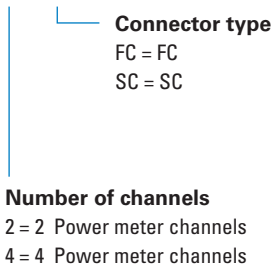
General Specifications	matrIQ-Power
Bus connection	USB and Ethernet
Dimensions (H x W x D)	45 x 114 x 212 mm   1.7 x 4.5 x 8.3 inch
Weight	~ 1.1 kg   ~ 2.4 lbs
Operating temperature range	5 °C to 45 °C   41 °F to 113 °F
Storage temperature range	-40 °C to 70 °C   -40 °F to 158 °F
Model Number	1401
Optical connector type	FC or SC
Number of channels	2 or 4
Wavelength range	750 nm - 1700 nm
Power	-60 to +10dBm
Sensor	inGaAs 2mm
Uncertainty <sup>2,3,5</sup>	$\pm 0.34$ dB (typ)   $\pm 0.55$ dB (max)
Linearity <sup>2,5</sup>	$\pm 0.1$ dB
Return loss	> 50 <sup>8</sup> dB   1520 nm to 1580 nm
Average time of monitor power meter	100 $\mu$ s to 10 s
Data logging capability	1 to 1024 per channel on channel 1 and 2 only. 1 sample on channel 3 and 4
Damage level	$\pm 12$ dBm

### PRELIMINARY SPECS AS OF FEBRUARY 2019

- Notes:
- 1 Specifications are valid at 23 °C  $\pm$  3 °C.
  - 2 +10 dBm to -40 dBm, 23 °C.
  - 3 Excluding connectors.
  - 4 < 10 dB attenuation.
  - 5 at calibration wavelengths.

# Ordering Information

PowerMatrIQ - 1401 - X - XX



## Product Warranty

This product comes with a 3 year warranty.

## About Coherent Solutions

Coherent Solutions is a world-leader in photonics test and measurement. Our portfolio of benchtop and modular test instruments is rapidly expanding to meet the needs of scientists, engineers and manufacturers around the world. No matter where you are, we'll work with you to solve complex problems with simple, intuitive solutions.

**To find out more, get in touch with us today.**

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