



mWAVE-A1

MAP-200 Compact Multi-Wavelength Wavemeter



The innovative Viavi Solutions Wavemeter module is the most compact solution available. It is a richly featured multi-wavelength meter that works in MAP-230B and MAP-280 mainframes and can be controlled through an easy-to-use GUI or the MAP-200 automation interface.

Based on coherent detection techniques, it provides unprecedented frequency resolution to precisely report the power level and central frequencies of densely spaced optical signals as close as 2 GHz.

This ground-breaking solution is ideal for both lab and manufacturing test systems where reliability, compactness, and performance are critical.

Key Benefits

- Industry's most compact multi-wavelength meter
- Covers extended C-band (191.1 – 196.4 THz) for telecom manufacturing
- ± 3 pm absolute accuracy
- Seamlessly transitions from R&D to manufacturing environments
- Works alongside other MAP modules in the MAP-230B and MAP-280
- No moving parts

Key Features

- Extended C-band acquisition range
- Multi-wavelength meter
- Easy-to-use tabulated results

Applications

- DWDM transmission systems
- Optical sources
- Transponders and line cards

Platform Compatibility

MAP-230B



3-slot mainframe

MAP-280/MAP-280R



8-slot mainframe

Specifications (at 25°C over the entire frequency range)

Spectral	
Optical frequency (wavelength) range	196.4 – 191.1 THz (1526.44 – 1568.77 nm)
Absolute uncertainty of frequency (wavelength) ¹	±370 MHz (±3 pm)
Minimum signal separation	2 GHz (16 pm)
Power	
Input power range ²	–60 to +10 dBm
Max. total input power ³	+17 dBm
Absolute uncertainty of power level ^{1,4}	±1 dB
Display resolution	0.01 dB
Other	
Return loss	>50 dB
Measurement time ⁵	min 1.0 s
Fiber type	9/125 μm single-mode fiber
Connector type	FC/APC
Operating temperature	10 to 40°C
Storage temperature	–20 to +50°C
Humidity	Maximum 95% RH from +10 to +40°C noncondensing
Dimensions	4.06 x 13.26 x 37.03 cm
Weight	1.4 kg
Calibration period	1 year

1. Average of 10 consecutive sweeps.
2. Power of unmodulated single-frequency laser or peak power of modulated signal in 300 MHz optical bandwidth.
3. Total power of all input signals.
4. For input power from –10 to –40 dBm.
5. Over 50 GHz sweep range, no averaging.

Ordering Information

Description	Part Number
MAP-200 extended C-band wavemeter module	mWAVE-A1CB10
Basic spectrum view for wavemeter	MSUP-WMSPTRM



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