

Specifications (MS9001B/B1)

Model	MS9001B	MS9001B1
Wavelength range	0.6 to 1.75 μm	
Level measuring range ¹	-70 to +10 dBm (0.7 to 1.6 μm), -65 to +10 dBm (0.6 to 1.7 μm), -55 to +10 dBm (1.6 to 1.75 μm)	
Measuring level accuracy ²	± 2 dB (at 0.85/1.3/1.55 μm)	
Linearity	± 0.5 dB/20 dB, ± 1 dB/60 dB	
Polarization	± 0.5 dB (at 1.3/1.55 μm)	
Level scale	0.2 to 10 dB/div and LINEAR	
Dynamic range (background light level) ³	≥ 35 dB (level difference between peak level and ± 1 nm from peak level) ≥ 45 dB (level difference between peak level and ± 10 nm from peak level)	≥ 40 dB (level difference between peak level and ± 1 nm from peak level) ≥ 50 dB (level difference between peak level and ± 5 nm from peak level)
Wavelength read-out resolution	2 pm	
Wavelength accuracy	± 1 nm, ± 0.5 nm (25°C)	
Resolution bandwidth	0.1 to 5 nm	
Wavelength sweep width	0 to 100 nm/div	
Sweep time ⁴	≤ 0.3 s (sweep width: ≤ 2 nm), ≤ 1 s (sweep width: ≤ 50 nm), ≤ 3 s (sweep width: ≤ 500 nm), ≤ 7 s (sweep width: ≤ 1200 nm)	
Processing functions	Automatic setting for optimum measurement, subtraction averaging, peak search peak-to-center, spectrum half-width, wavelength calibration, title display, time display, memory backup, direct plotting	
Temperature, rated range of use	10° to 40°C	
Dimensions and weight	266H x 426W x 450D mm, <30 kg	

¹ Levels per resolution bandwidth, excepting 0.1 and 0.2 nm

² At -30 dBm, resolution bandwidth 0.2 to 5 nm (SM fiber)

³ At 1.523 μm or 1.532 μm with 0.1 nm resolution (SM fiber)

⁴ Averaging times: 1 measuring ranges: ≥ -30 dBm (1 μW)