

ANDO AQ8201-61  
Optical Spectrum Analyzer Module Specification

Measurement Wavelength Range	1200 to 1700nm (vacuum wavelength)	
Wavelength Accuracy	Within $\pm 0.05\text{nm}$ (1550 to 1570nm)	
	Within $\pm 0.3\text{nm}$ (1200 to 1700nm)	
Wavelength Linearity	Within $\pm 0.02\text{nm}$ (1550 to 1570nm)	
Wavelength Repeatability	Within $\pm 0.005\text{nm}$ (1 minute)	
Wavelength Resolution	Max. Resolution: 0.08nm typical (1550 to 1600nm)	
	Resolution Setting: Max. 0.2, 0.5, 1.0nm	
	Resolution Accuracy: $\pm 5\%$ (Resolution: 0.2nm or more)	
Measurement Level Range	-90 to + 20dBm (1200 to 1600nm)	
	-80 to +20dBm (1600 to 1700nm)	
Level Accuracy	$\pm 0.3\text{dB}$ typical (1310/1550nm, input: -30dBm)	
	Sensitivity Mode: HIGH 1 to 3)	
Polarization Dependant Loss	Within $\pm 0.05\text{dB}$ (1310/1550nm)	
Level Linearity	Within $\pm 0.05\text{dB}$ (Input: -40 to 0dB)	
	Sensitivity Mode: HIGH 1 to 3)	
Level Flatness	Within $\pm 0.1\text{dB}$ (1550 to 1570nm)	
Level Reproducibility	Within $\pm 0.02\text{dB}$ (1310/1550nm, Input: -23dBm)	
Dynamic Range (Stray Light Level)	40dB or more (1523nm, Peak: $\pm 1.0\text{nm}$ , Resolution: 0.08nm)	
	30dB or more (1523nm, Peak: $\pm 0.4\text{nm}$ , Resolution: 0.08nm)	
Optical Input Return Loss	30dB typical (1310/1550nm)	
Sweep Time	Approximate 1 second (Span: 50nm or less, Sensitivity Mode: NORMAL HOLD, Averaging Time: 1, Sample Point: AUTO)	
Automatic Measurement	Program Function (5 Programs, 200 Steps, Long Term Function)	
Measurement Condition Settings	Span: 0 to 500nm; Sensitivity Mode: NORMAL HOLD, AUTO, HIGH 1/2/3; Averaging: 1 to 1000; Sample Point: 11 to 20001, AUTO; Automatic Setting Function; Sweep between Markers; 0nm Sweep; Averaging Measurement of Pulse Light	
	Trace Display	Level Scale Setting; Simultaneous Display of 3 Individual Traces: Max./Min. Display, Roll Averaging Display, Differential Trace Display; Power Density Display; % Display; Frequency Axis
	Data Analysis	WDM Analysis (Table of Wavelength, Level and SNR List) EDFA Analysis (Gain/NF), Peak Search Spectrum with Search, Notch Width Search, Delta Marker (Max. 100), Line Marker (Analysis Range Setting), Graphical Display for Long Term Measurement
Others	Wavelength Self-calibration Function (Built-in Reference Light Source), Wavelength Level Offset Function, Label Function	
	Internal Memory	2 Mbyte
Applicable Fiber	SM (10/125 $\mu\text{m}$ )	
Environmental Conditions	Operating Temperature: 5 to 40°C	
	Storage Temperature: 0 to 50°C	
	Humidity: 85% RH or less (no condensation)	
Dimensions and Weight	Approximate: 200 (W) x 130 (H) x 339 (D) mm, 5kg	
Mainframe	AQ8201A Included	
Display	VGA Monitor Included	
Controller	AQ8210-02 Included	