

Specifications

Wavelength range	800 to 1650 nm	
Photoreceptor	Cooled InGaAs	
Application	Small-diameter silica fiber emission ¹⁾	
Input	AQ-9335 (*) Connector Adapter: Optional ²⁾	
Polarization dependent loss	±0.01 dBp-p or less ³⁾	
Power range ⁴⁾	CW light	-50 to +40 dBm (10 nW to 10W)
	Chopped light	-60 to +37 dBm (1 nW to 5W)
Uncertainty under reference conditions	±2.5% (at 1550 nm calibration point) ⁵⁾	
Total uncertainty	±5.0% (980 nm, 1250 to 1340 nm, 1440 to 1630 nm) ⁶⁾	
Linearity	±0.05 dB (-20 to +37 dBm) ⁷⁾	
Noise ⁸⁾	CW light	-43 dBm or less
	Chopped light	-53 dBm or less
Analog output	0 to approx. +2V for each range, output impedance 1.5 kΩ or less ⁹⁾	
Zero set	Automatic zero adjust	
Environmental conditions	Operating temperature: 0 to 40°C, storage temperature: -25 to +70°C, humidity: 85% RH or less (no condensation), overvoltage category: II, contamination level: 2, maximum altitude: 2,000m	
Dimensions and mass	Approx. 177 (W) x 82 (H) x 84 (D) mm (excl.cable and protrusions), approx. 1.4 kg	

Notes:

- 1) Applicable fiber $\leq 62.5/125 \mu\text{m}$ (GI), NA ≤ 0.275
- 2) (*) indicates connector type. Specify FC, SC, ST, DIN or HMS-10/A connector. For other connectors, Please consult your vendor or our sales offices.
- 3) Wavelength 1550 nm, SM fiber, PC connector, constant at 23 ±5°C.
- 4) Wavelength 1550 nm
- 5) Reference conditions
 - (1) Power level: 0 dBm (1mW), CW light
 - (2) SM fiber (ITU-T G652), master FC/PC connector
 - (3) Ambient temperature: constant at 23 ±5°C
- 6) Operating conditions
 - (1) Power level: 0 dBm (1mW), CW light
 - (2) Optical fiber $\leq 62.5 \mu\text{m}$, NA ≤ 0.275
 - (3) Ambient temperature: constant at 23 ±5°C
- 7) (1) Linearity for one wavelength within wavelength specified in total uncertainty
 - (2) CW light
 - (3) Ambient temperature: constant at 23 ±5°C
- 8) (1) Averaging 1 sec. (measurement interval 100 ms, averaging executed 10 times)
 - (2) Wavelength range equals that for total uncertainty
 - (3) CW light, chopped light (270 Hz)
- 9) Using a standard plug (output for AQ2730)

System configuration

The AQ2744 has been designed to serve as a sensor for the AQ2140 Optical Multimeter, and to work in conjunction with the AQ2730 OPM unit and the AQ-9335 Connector Adapter.

AQ2140 Optical Multimeter

AQ2730 OPM Unit

AQ-9335 Connector Adapter

AQ2744 Sensor

