

# AQ2160-01

Optical Powermeter



## *Simplified Functions Bring Superior Cost Performance*

The AQ2160-01 is a compact, lightweight, cost-effective optical powermeter designed for optical fiber line installation and maintenance.

The switchable 850, 1310 and 1550 nm wavelengths make the optical powermeter the perfect choice for optical fiber line installation and maintenance applications covering from FTTH networks to LANs. The AQ2160-01 is a new de facto standard of handheld optical powermeters focusing on the ease of use, including simple operation, convenient backlighting, and safe transport using the neck strap.

### ■ Simplified functions

- Operation with only three keys — Power, Wavelength Selection and Backlight

### ■ Compact and lightweight

- Approximately 70 mm (W) × 152 mm (H) × 32 mm (D) and 250 g

### ■ Two-way power supply

- Two AA batteries or AC adapter (optional)

### ■ Long operating time

- Approximately 40 hours (when alkaline batteries are used)

### ■ Backlight for work in dark places

- Remains lit for approximately 5 seconds after any key on the operation panel is pressed.

### ■ Accessories for easy transport

- Neck strap
- Carrying case

## Specifications

Sensor performance	
Wavelength settings	850, 1310 and 1550 nm
Reference wavelength	1310 nm
Light-receiving element	InGaAs (1 mm $\phi$ )
Use	Light emitted from SM (9/125 $\mu$ m), GI (50/125 $\mu$ m) or GI (62.5/125 $\mu$ m) optical fiber
Input type	SC or FC connector (selectable as a factory-set option)
Power range	-70 to +5 dBm
Noise level	-60 dBm
Accuracy <sup>Note</sup>	$\pm$ 5%
Powermeter performance and functions	
Display	7 segments, 4 digits, back light
Displayed unit	dBm (absolute value)
Range switching	Automatic
Measurement mode	CW light
Measurement interval	Approximately 330 ms
Display resolution	0.01 ( $\geq$ -60 dBm), 0.1 (< -60 dBm)
Backlight	Turns on while backlight key is pressed, and stays on for approximately 5 seconds after backlight key is pressed.
Power saving	The powermeter turns off automatically (or can be functionally disabled) when there is no key operation for approximately 10 minutes.
Battery check	Low-battery indicator
Resume function	Resumes operation with settings which were active at immediately preceding power-off
Power supply	Two AA batteries (alkaline dry cells or nickel metal-hydride rechargeable batteries) or optional AC adapter
Battery life	Approximately 40 hours (as measured using alkaline dry cells, at 25°C with CW light input)
Environmental conditions	Operating temperature range: 0°C to +50°C Storage temperature range: -25°C to +70°C Relative humidity: 80% or less (no condensation)
Weatherproofing	Conforms to JIS C 0920 weatherproofing TYPE I
Dimensions and weight	70 (W) $\times$ 152 (H) $\times$ 32 (D) mm Approximately 250 grams
Included accessories	Two alkaline dry cells, neck strap, carrying pouch, user's manual
Option	AC adapter

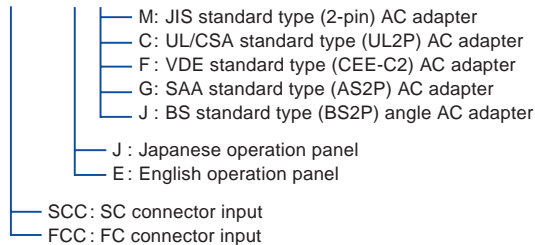
Note 1: Ta=23 $\pm$ 5°C, reference conditions (1310 nm, -20 dBm, using SM fiber)

## Model

Product name: **AQ2160-01 Optical Powermeter**

Model number:

SU1004A-□□□-□/□



\* Contact us if you have any questions.

## Options

Product	Model number	Specifications
Protective Holster	SU2002A	
AC adapter	SU2007A	-M JIS standard type (2-pin)
		-C UL/CSA standard type (UL2P)
		-F VDE standard type (CEE-C2)
		-G SAA standard type (AS2P)
		-J BS standard type (BS2P) angle
Soft carrying case	SU2006A	

## Related Products



Optical Powermeter  
**AQ2160-02**

High-performance handheld powermeter with advanced functions

LD light source (1310/1550 nm)  
**AQ4270-01**

High-performance handheld light source capable of CHOP light output



OTDR  
**AQ7260**

Measuring instrument for detecting damage points on optical fiber lines

TrafficTesterMini  
**AE5501**

Handheld tester for Ethernet line setup and maintenance



### Caution

- If you plan to export this product outside of Japan, you may need approval from the Japanese government pursuant to the stipulations of the Foreign Exchange and Foreign Trade Control Law.  
In addition, this product is subject to restrictions under the United States Export Control Act, so export approval from the United States government may be required depending on the destination country.
- The information presented herein is subject to change without notice for reasons of performance and/or quality improvement.

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