

Specifications

Mainframe Specifications

Resolution: 0.005% to 0.1% (with unit of W)
0.01% (with unit of dBm)

Absolute Accuracy of A/D converter: $\pm 0.2\%$ (included sensor measurement accuracy)

Display: LCD with back light for use in dark location

Wavelength readout 4 digits(nm)

Power readout 4-1/2 digits (mW, μ W, nW, dBm, dBr)

Range switching: Automatic or manual

Measurement speed: 2 Measurements/s or faster

Max-Hold and dBr Functions:

Max-hold (for wait measurement) The maximum measured value is held

dBr (for dBr measurement) The value relative to a reference value is indicated.

Wavelength sensitivity compensation: Automatic compensation of sensor sensitivity at set wavelengths.

Smoothing function: Digital smoothing (by moving averages, 2 to 20 averages)

Offset and zero: Stores sensor offset for automatic compensation.

Analog output: Proportional to the input signal

Output voltage: 0V to 2V Output impedance: Max 10

Output connector: 2-pin mini-jack

Optical Sensors Specifications (Option)

Model	Q82014A optical sensor (for short wavelengths)	TQ82015 optical sensor (for Long wavelengths)	Q82017A thin-type optical sensor	Q82018A (for long wavelengths)
Wavelength range	0.4 to 1.1 μ m	0.8 to 1.6 μ m	0.4 to 1.1 μ m	0.8 to 1.65 μ m
Power range *2	-60 to +17 dBm (1 nW to 50 mW)	-40 to +10 dBm (100 nW to 10 mW)	-60 to +17 dBm (1 nW to 50 mW)	-60 to 0 dBm (1 nW to 1 mW)
Sensor element	Si	Ge	Si	InGaAs PIN
Light input format	Direct			FC*1
Photoreceptive area	Approx. 8 mm	Approx. 5 mm	Approx. 10 x 10 mm	
Measurement range	8 ranges in 10 dB steps	5 ranges in 10 dB steps	8 ranges in 10 dB steps	6 ranges in 10 dB steps
Measurement accuracy	$\pm 5\%$ (at 850nm, -20 dBm input)	$\pm 5\%$ (at 1300 nm, -20 dBm input)	$\pm 5\%$ (at 850 nm, -20 dBm input)	$\pm 5\%$ (at 1300 nm, -20 dBm input)
Wavelength sensitivity compensation range	0.4 to 1.1 μ m	0.8 to 1.7 μ m	0.4 to 1.1 μ m	0.75 to 1.7 μ m

*1 For other connector types, contact ADVANTEST's sales office or sales representatives.

*2 Measured with each wavelength range. The maximum level is measured when the light is received on the entire photoreceptive area of the sensor.

General Specifications

Operating conditions: 0°C to 40°C, 85% RH or less

Power: Internal NiCd battery (more than 8 hours when LCD backlight is ON, More than 10 hours when LCD backlight is OFF.)

Change of AC power requirement:

Specified at the time of ordering (The Ni-Cd battery can be changed)

Option No.	Standard	42
Supply voltage (V)	90 to 110(A08017)	200 to 245(A08019)

Power Consumption

Option No.	Standard	32	42*
Supply voltage(V)	90 to 110(A08017)	103 to 132(A08035)	200 to 245(A08019)
Power consumption	5VA or less	5VA or less	6.4VA or less

*Option 42 receives CE Mark Approval.

Dimensions: Approx. 80 (W) x 180 (L) x 35 (H) mm

Mass: 400g maximum

Standard Accessories: AC adaptors A08017 (90 to 110V AC) or

A08035 (103 to 132V AC) or A08019 (200 to 245V AC)

specified at time of ordering

Analog output cable: A01225

Accessories

Adaptors (Optional accessories)

FC Adaptor A08012

D4 Adaptor A08013

OF2 Adaptor A08014

Bare-fiber Adaptor (FC type) A08024

Bare-fiber Adaptor (V groove) A08020

Adaptor Cap A08021

Dummy Fiber TQ11831

ATT Biconical A08025

Diamond 2.5/3.5 A08026/27

Amphenol SMA A08028

Siemens A08029

Sumitomo Mini-BNC A08030

MBO A08031

HFBR-4000 A08032

