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Overview

The 8250A is a bench-type optical power meter, which is most suitable for R&D and production of LDs, optical pickups, and drives for optical disks.

It has 0.001dB resolution and 5 1/2-digit display and is also quipped with GPIB and USB interfaces as standard, allowing easy automated system establishment.

Nine kinds of optical sensors with various purpose (general-purpose/blue-violet/high-power/three-wavelength) and different shapes (thin-type/ cylindrical-type) are available. The three-wavelength optical sensors 82314A, 82324A and 82314W are capable of measuring 405nm, 650nm, 780nm wavelength ranges. The blue-violet optical sensors 82312 and 82322 have realized a flat wavelength sensitivity characteristic and low dependency on an angle of incidence in the 405 nm range. The high-power optical sensors 82313 and 82323 enable high-power measurement of up to 200mW.

Furthermore, the optical sensors for the TQ8210/TQ8215 series are also usable.

Features

- * High resolution 0.001dB, 5 1/2-digit display
- * GPIB and USB interfaces
- * Various sensors available by use
 - 1) three-wavelength optical sensor applicable to Blu-ray disk, DVD (650nm) and CD (780nm), most suitable for pick up evaluation (82314A/82324A/82314W)
 - Flat wavelength sensitivity characteristic and low dependency on an angle of incidence in the 405/650/780 nm bands
 - Low reflection; less measurement deviation due to multi reflection between the sensor and the pickup.
 - 2) Blue-violet optical sensor most suitable for Blu-ray disk in the 405nm band (82312/82322)
 - Flat wavelength sensitivity characteristic and low incident-angle-dependency in the 405 nm band
 - Low reflection; less measurement deviation due to multi reflection between the sensor and the pickup
 - 3) High-power optical sensor of up to 200mW (82313/82323)
 - The maximum light-receiving power of 200mW suitable for pickup measurement of high-speed rewritable CD/DVD
 - It is possible to measure high power density without saturation up to 200mW even at 0.1mmφ spot diameter.
 - 4) Low-price general-purpose optical sensor (82311/82321)
- * Both thin-type and cylindrical-type optical sensors are available. Manual measurement and system built-in measurement can be performed easily.
- * Sensor power calibration wavelength: 405/650/780nm
 - Maximum three-wavelength power calibration is available on just one sensor by adding the calibration wavelength options. (405nm: OPT+21/650nm: OPT+22/780nm:OPT+23)
- * The optical sensors for the TQ8210/TQ8215 series (82014A/82017A/82015/Q82018A) are also usable.

Optical Power Meter Accessories (Optical Sensors)

Model	Product Name	Description
82311	Optical Sensor (General-purpose, thin type)	Sensing area: Approx. 9.5mm x 9.5mm 390 to 1100nm, -60 to +17dBm (1nW to 50mW) Beam spot: at 3mm dia. or more

82312 Optical Sensor
(Blue-violet, thin type) Sensing Area: Approx. 10mm x 10mm
390 to 450nm, -50 to +20dBm (10nW
to 100mW)
Beam spot: at 1 mm dia. or more

82313 Optical Sensor
(High-power, thin type) Sensing area: Approx. 8.5m dia.
390 to 1100nm, -50 to +23dBm (10nW
to 200mW)
Beam spot: at 0.1mm dia. or more

82314A Optical Sensor
(Three-wavelength, thin type) Sensing area: Approx. 10mm x 10mm
390 to 900nm
405nm, -50 to +20dBm (10nW to
100mW)
Beam stop: at 1mm dia. or more
650nm, -50 to +20dBm (10nW to
100mW)
Beam spot: at 3mm dia. or more
780nm, -50 to +20dBm (10nW to
100mW)
Beam spot: at 3mm dia. or more

82314W Optical Sensor
(Three-wavelength, thin type) Sensing area: Approx. 18mm x 18mm
390 to 900nm
405nm, -50 to +20dBm (10nW to
100mW)
Beam stop: at 2mm dia. or more
650nm, -50 to +20dBm (10nW to
100mW)
Beam spot: at 3mm dia. or more
780nm, -50 to +20dBm (10nW to
100mW)
Beam spot: at 3mm dia. or more

82321 Optical Sensor
(General-purpose, cylindrical type) Sensing area: Approx. 8.5m dia.
390 to 1100nm, -60 to +17dBm (1nW
to 50mW)
Beam spot: at 3mm dia. or more

82322 Optical Sensor
(Blue-violet, cylindrical type) Sensing area: Approx. 8.5m dia.
390 to 450nm, -50 to +20dBm (10nW
to 100mW)
Beam spot: at 1mm dia. or more

82323 Optical Sensor
(High-power, cylindrical type) Sensing area: Approx. 8.5m dia.
390 to 1100nm, -50 to +23dBm (10nW

to 200mW)
Beam spot: at 0.1mm dia. or more

82324A

Optical Sensor
(Three-wavelength, cylindrical type)

Sensing area: Approx. 8.5m dia.
390 to 900nm
405nm, -50 to +20dBm (10nW to 100mW)
Beam stop: at 1mm dia. or more
650nm, -50 to +20dBm (10nW to 100mW)
Beam spot: at 3mm dia. or more
780nm, -50 to +20dBm (10nW to 100mW)
Beam spot: at 3mm dia. or more

A08012

FC Adapter

For 82321/82322/82323/82324