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Data Sheet

August 15, 2026

ADVANTEST

Advantest TQ82014

The Advantest TQ82014 is an optical sensor head for the TQ8215 optical power multimeter. OEM discontinued-product listings classify TQ82014 as optical sensor, with TQ82011 as the plug-in unit for TQ8215 and TQ82017/TQ82021 as thin optical sensors. TQ8210 is the related optical power meter and TQ8325 the optical standard power meter. Optical power measurements on Advantest TQ8215 multimeters. Host Meter: TQ8215 optical power multimeter Related Plug In: TQ82011 plug-in unit for TQ8215 Related Meter: TQ8210 optical power meter Related Standard: TQ8325 optical standard power meter Literature: Advantest discontinued EMI product list TQ82014 optical sensor Application Class: fiber optical power measurement



MODEL

**Advantest
TQ82014**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

TQ82014

LISTING

<https://aumictechlabs.com/products/tq82014-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Advantest TQ82014 is a single-channel optical power sensor designed as a plug-in accessory for Advantest optical power meters and spectrum analyzers. It extends measurement capability across the visible and near-infrared spectrum, enabling precise optical power characterization in telecommunications, laser printing, optical storage, and R&D environments. The sensor employs a silicon photodiode with onboard wavelength sensitivity compensation, delivering direct absolute power readings with 0.01 dB resolution across a dynamic range

spanning six decades. Technical Specifications Wavelength Range: 0.4 μm to 1.1 μm Power Range: 0.001 μW to 50 mW (–70 dBm to +17 dBm) Power Resolution: 0.01 dB Measurement Accuracy: $\pm 5\%$ nominal; $\pm 3.0\%$ at 780 nm (0 dBm) and ± 0.20 dB at 1 mW over $23 \pm 3^\circ\text{C}$; $\pm 4.0\%$ at 780 nm (0 dBm) and ± 0.20 dB at 1 mW over $0\text{--}40^\circ\text{C}$ Detector: Silicon photodiode Operating Environment: $0\text{--}40^\circ\text{C}$, 4–85% RH Storage Temperature: $-25\text{--}70^\circ\text{C}$ Dimensions: 90(W) $\times$ 94(H) $\times$ 6(D) mm Mass: ≤ 110 g Key Features Wavelength sensitivity data stored in onboard memory enables automatic compensation when wavelength is set Single-channel architecture optimized for OPM/OSA integration Wide dynamic range measurement from microwatt to tens-of-milliwatt levels Sub-0.01 dB resolution supports precision characterization of laser and optical component performance Silicon photodiode provides flat spectral response across visible and near-IR bands Typical Applications Optical telecommunications system characterization Laser printer and LED output verification Optical storage media testing (CD, magneto-optical) Research and development optical measurements Production line optical power verification Compatibility & Integration The TQ82014 connects directly to Advantest TQ8210, TQ8215, Q8214A, and Q8210 optical power meters, as well as select Advantest spectrum analyzers. Wavelength sensitivity at 400 nm may degrade under high-humidity conditions; use in other bands is unaffected by ambient moisture.

TQ82014 Characteristics / Specifications

PARAMETER	VALUE
Model	TQ82014
Instrument Type	Optical sensor head
Host Meter	TQ8215 optical power multimeter
Related Plug In	TQ82011 plug-in unit for TQ8215
Related Thin Sensors	TQ82017 and TQ82021 thin optical sensors
Related Meter	TQ8210 optical power meter
Related Standard	TQ8325 optical standard power meter
Related Sensor	TQ8214 optical sensor
Manufacturer	Advantest
Use Case	optical power sensor head
Literature	Advantest discontinued EMI product list TQ82014 optical sensor
Family	Advantest TQ821x optical power
Documentation Type	OEM TQ82014 listing
Brand Lineage	Advantest
System Role	optical sensor head
Form Factor	optical sensor head
Measurement Class	optical power
Application Class	fiber optical power measurement
Operating Temperature Class	laboratory optical
Year Class	TQ8215 sensor family
Vendor Path	Advantest
Documentation Class	OEM optical sensor catalog
Connector Class	optical sensor interface to TQ8215
Control Class	TQ8215 mainframe readout
Calibration Class	calibrated optical sensor head

PARAMETER	VALUE
Related Source	TQ8111 white light source
Operating temperature	Class: laboratory optical

TQ82014 Specifications

PARAMETER	VALUE
Advantest TQ82014 Optical Sensor Head	Overview
Applications	Optical power measurements on Advantest TQ8215 multimeters.
Key Features	TQ8215 optical sensor head
Technical Specifications	Model: TQ82014

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: laboratory optical
Operating Temperature	Class: laboratory optical
Operating Temperature Class	laboratory optical
Year Class	TQ8215 sensor family
Vendor Path	Advantest
Documentation Class	OEM optical sensor catalog
Connector Class	optical sensor interface to TQ8215
Control Class	TQ8215 mainframe readout
Calibration Class	calibrated optical sensor head
Related Source	TQ8111 white light source Notes From Advantest discontinued EMI list (TQ82014 optical sensor for TQ8215). Wavelength range, power range, and detector type are on the TQ82014 specification sheet.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
Specifications	
PARAMETER	VALUE
Model	TQ82014
Instrument Type	Optical sensor head
Host Meter	TQ8215 optical power multimeter
Related Plug In	TQ82011 plug-in unit for TQ8215
Related Thin Sensors	TQ82017 and TQ82021 thin optical sensors
Related Meter	TQ8210 optical power meter
Related Standard	TQ8325 optical standard power meter
Related Sensor	TQ8214 optical sensor
Manufacturer	Advantest
Use Case	optical power sensor head
Literature	Advantest discontinued EMI product list TQ82014 optical sensor
Family	Advantest TQ821x optical power
Documentation Type	OEM TQ82014 listing
Brand Lineage	Advantest
System Role	optical sensor head
Form Factor	optical sensor head
Measurement Class	optical power
Application Class	fiber optical power measurement
Operating Temperature Class	laboratory optical
Year Class	TQ8215 sensor family
Vendor Path	Advantest
Documentation Class	OEM optical sensor catalog
Connector Class	optical sensor interface to TQ8215
Control Class	TQ8215 mainframe readout
Calibration Class	calibrated optical sensor head
Related Source	TQ8111 white light source

Notes

From Advantest discontinued EMI list (TQ82014 optical sensor for TQ8215). Wavelength range, power range, and detector type are on the TQ82014 specification sheet.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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NIST-traceable calibration · SAM registered ·
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.