

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 15, 2026

ADVANTEST

Advantest TQ8214

Related Heads: TQ82014 optical sensor, TQ82017 thin optical sensor, TQ82021 thin optical sensor
Related Source: TQ8111 white light source
Literature: Advantest discontinued EMI product list
TQ8214 / TQ821x family
Application Class: fiber optical power measurement
Related Source: TQ8111 white light source
Literature: Advantest discontinued EMI product list
TQ8214 / TQ821x family
Application Class: fiber optical power measurement
Operating Temperature Class: laboratory optical



MODEL

Advantest TQ8214

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

TQ8214

LISTING

<https://aumictechlabs.com/products/tq8214-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Advantest TQ8214 is a portable optical power meter that delivers precise measurement of optical signal power across configurable wavelength ranges. Built for field deployment in optical communications, laser systems, and R&D environments, the instrument combines high sensitivity with broad dynamic range through interchangeable sensor modules. Its LCD display presents power in linear (W) or logarithmic (dBm) units alongside wavelength readout, while automated compensation and user-selectable functions enable stable, accurate readings in variable conditions.

Technical Specifications

Measurement Range & Sensitivity Wavelength range: 400 nm to 1650 nm (adaptable via sensor selection) Power measurement: -60 dBm to milliwatts (4½-digit dynamic range) Measurement speed: 2 measurements/s or faster Absolute accuracy: ±0.2% (A/D converter, including sensor accuracy) Display & Readout Backlit LCD with 4-digit wavelength

display (nm) Power readout: 4½ digits in mW, µW, nW, dBm, or dBr units Analog bar graph of input signal Optical Sensors Short wavelength sensors (400–1100 nm): T082014, T082017 Long wavelength sensors (800–1600 nm): T082015, T082018A High-sensitivity option: Q82018A (-60 dBm at 1.3 µm)Key Features Max-Hold function retains peak measured values dBr (relative value measurement) mode for reference-based testing Digital smoothing with 2–20 averaging cycles to suppress noise Auto/Manual ranging for optimal scale selection Automatic offset adjustment via dedicated sensor key Wavelength-sensitive compensation applied at set wavelength for direct absolute power reading Analog output (0 V to 2 V) proportional to input signalElectrical & Operational AC or built-in Ni-Cd battery operation Battery runtime: ≥10 hours continuous AC adapter for line power and charging Battery low indicatorTypical Applications Fiber-optic network installation and maintenance Laser power characterization and alignment Optical component testing and qualification Field measurement in telecommunications systems

TQ8214 Characteristics / Specifications

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

PARAMETER	VALUE
Operating temperature	Class: laboratory optical

TQ8214 Specifications

PARAMETER	VALUE
Advantest TQ8214 Optical Sensor	Overview
Applications	Optical power sensing with Advantest TQ8210/TQ8215 meters.
Key Features	Optical sensor for TQ821x meters
TQ8210 power meter family	TQ8215 optical power multimeter
Technical Specifications	Model: TQ8214

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: laboratory optical
Operating Temperature	Class: laboratory optical
Operating Temperature Class	laboratory optical
Year Class	TQ821x family
Vendor Path	Advantest
Documentation Class	OEM optical sensor catalog
Connector Class	optical sensor interface to TQ821x
Control Class	TQ8210/TQ8215 mainframe readout
Calibration Class	calibrated optical sensor
Related Plug In	TQ82011 plug-in unit for TQ8215 Notes From Advantest discontinued EMI list (TQ8214 optical sensor with TQ8210/TQ8215 meters). Wavelength range, power range, and detector type are on the TQ8214 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	
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Related Multimeter	TQ8215 optical power multimeter
Related Standard Meter	TQ8325 optical standard power meter
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Brand Lineage	Advantest
System Role	optical sensor
Form Factor	optical sensor head
Measurement Class	optical power
Application Class	fiber optical power measurement
Operating Temperature Class	laboratory optical
Year Class	TQ821x family
Vendor Path	Advantest
Documentation Class	OEM optical sensor catalog
Connector Class	optical sensor interface to TQ821x
Control Class	TQ8210/TQ8215 mainframe readout
Calibration Class	calibrated optical sensor
Related Plug In	TQ82011 plug-in unit for TQ8215

Notes

From Advantest discontinued EMI list (TQ8214 optical sensor with TQ8210/TQ8215 meters). Wavelength range, power range, and detector type are on the TQ8214 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

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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.