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Data Sheet

August 14, 2026

ADVANTEST

Advantest R6561 Digital multimeter

The Advantest R6561 is a 6.5-digit DMM optimized for low-level DC voltage and resistance. OEM TechEyesOnline / ADC discontinued catalog materials list maximum display 1199999, 10 nV DC sensitivity, 1 uOhm resistance resolution, DCV from 100 uV to 500 V, ohms from 100 mOhm to 10 kOhm, Lo Power open-circuit voltage 20 mVpeak or less, GPIB, and analog output 0 to 0.999 V. Semiconductor and materials research needing nanovolt and microohm resolution, contact-resistance measurement with low open-circuit voltage, and GPIB automated DC metrology. Warm Stability Intent: long-term low-level DC stability Max Resistance Power Class: 10 W class listing on resistance measurement Manufacturer Lineage: Advantest / ADC Corporation discontinued From Advantest/ADC R6561 discontinued product descriptions (TechEyesOnline catalog lines and ADC R6561 10 nV / 1 uOhm 6.5-digit summary) plus published mechanical listing. Full percent-of-reading accuracy tables belong in the R6561 comprehensive catalog/manual PDF.



MODEL

Advantest R6561

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

R6561

LISTING

<https://aumictechlabs.com/products/r6561-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Advantest R6561 is a 6 1/2-digit digital multimeter engineered for precision DC voltage, micro-DC voltage, and resistance measurements in research and semiconductor applications. It delivers 10 nV sensitivity for micro-DC measurements and 1 $\mu\Omega$ resolution for resistance, supported by automatic offset cancellation and floating current source topology to eliminate

thermal EMF and line resistance effects. Sampling rates reach 2,000 times per second with multi-sampling bulk output, enabling real-time data collection at 10 msec intervals in 6 1/2 digit mode. Digital smoothing via moving average reduces noise without sacrificing measurement speed, while null function capability supports micro-resistance and offset voltage compensation. Technical Specifications Display: 6 1/2 digits (maximum reading 1199999) DC Voltage sensitivity: 10 nV (micro-DC) Resistance resolution: 1 $\mu\Omega$ (4-wire) Sampling rate: 2,000 samples per second Data output interval: 10 msec (6 1/2 digit mode) Low Power mode terminal voltage: 20 mV_{peak} or less Temperature coefficient range: +18°C to +28°C (standard); 0°C to +18°C and +28°C to +40°C with +0.0001 adjustment to % reading 2-wire resistance accuracy: +0.2 Ω maximum additional error versus 4-wire measurement Key Features Automatic offset cancellation and floating current source eliminate thermal EMF and parasitic resistance Multi-sampling bulk output mode for high-speed data acquisition Digital smoothing with moving average for low-signal reliability Null function for connection cable error measurement and offset voltage compensation Auto zero and auto calibration maintain accuracy with 1 hour calibration interval Measurement accuracy expressed as $\pm$ (% of reading + LS digit value) Typical Applications Semiconductor device characterization Contact resistance and low-resistance component testing Superconductor and metal material measurements Basic research in electronic component evaluation Compatibility & Integration Detailed accuracy specifications for 6 1/2 digit measurements are documented in the R6871E brochure.

R6561 Characteristics / Specifications

PARAMETER	VALUE
Display Digits	6.5
Maximum Display Counts	1199999
Dcv Sensitivity	10 nV
Resistance Resolution	1 uOhm
Dcv Range Span	100 uV to 500 V
Resistance Range Span	100 mOhm to 10 kOhm
Resistance Modes	Hi Power and Lo Power
Lo Power Open Circuit Voltage	20 mV _{peak} or less
Offset Cancel	automatic offset cancel
Current Source	floating current source
Null Function	yes with offset correction
Digital Smoothing	yes
Math Functions	yes
Integration Time Select	yes
Remote Interface	GPIB
Analog Output	0 to 0.999 V
External Trigger Input	yes
Complete Output	yes
Dimensions Approx	240 mmWx 132 mmHx 400 mmDMass Approx: 7 kg
Line Power Example	AC 100 V class listing
Instrument Type	digital multimeter
Measurement Functions	DCV micro DCV resistance
Warm Stability Intent	long-term low-level DC stability
Max Resistance Power Class	10 W class listing on resistance measurement
Form Factor	benchtop

PARAMETER	VALUE
Manufacturer Lineage	Advantest / ADC Corporation discontinued
Trigger Complete Handshake	yes
Gpib Full Remote	yes

R6561 Specifications

PARAMETER	VALUE
Advantest R6561 Digital Multimeter	Overview
Key Features	6.5 digit 1199999 counts
Technical Specifications	Display Digits: 6.5

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	
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Notes

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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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.