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Data Sheet

August 14, 2026

ADVANTEST

Advantest R6452A Digital Multimeter

The Advantest R6452A is the full-function dual-channel 5.5-digit DMM in the R6451A/6452A family. OEM tables add dual display, B-channel DCV, frequency 20 Hz to 200 kHz, and Type-K temperature minus 50 to 1370 C on top of the shared 0.018 percent DCV accuracy and 80 rdgs/s fast mode. Two-signal DCV comparison, frequency of AC sources, and Type-K temperature plus DMM work. Dcv 2000 mV Accuracy: plus or minus 0.018 percent plus 5 digits Dcv Resolution 200 mV: 1 uVBChannel Dcv Accuracy: plus or minus 0.025 percent plus 2 digitsBChannel Impedance: 10 MOhm plus or minus 5 percent betweenBterminals Dimensions: approx 212 W x 88 H x 310 D mm Mass: 2.2 kg maximum main unit 3.5 kg with options Accuracy Temperature: 23 plus or minus 5 C 85 percent RH or less 1 year From Advantest R6452A datasheet tables. Dual-channel DCV and frequency/temperature are R6452A functions not present on the R6451A.



MODEL

Advantest R6452A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

R6452A

LISTING

<https://aumictechlabs.com/products/r6452a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Advantest R6452A is a 5.5-digit digital multimeter engineered for R&D, manufacturing, and automated test systems. Its dual-channel architecture and dual display enable simultaneous independent measurement of two signals, creating a versatile measurement environment. Channel A delivers DC voltage, AC voltage, DC current, AC current, 2-wire resistance, low-power resistance, frequency, diode test, and continuity functions. Channel B provides DC voltage, DC

current, and AC current measurement. A dedicated rear-panel input accepts Type K thermocouples with cold-junction compensation for temperature measurement.

Technical Specifications

Resolution: 5.5-digit display with maximum 199999 counts per channel

DC Voltage Accuracy: 180 ppm + 5 digits (best case)

DC Voltage Resolution: 1 μ V on channels A and B

Sampling Rates: 80 SPS (fast, max 1999 display), 10 SPS (medium), 2.5 SPS (slow, max 199999 display)

AC Voltage Bandwidth: 20 Hz to 100 kHz with True RMS measurement

AC Current Bandwidth: 20 Hz to 5 kHz with True RMS measurement

Current Range: 10 A AC and 10 A DC

maximum Voltage Range: 700 V AC, 0.001 V DC

minimum Resistance Range: 200 Ω maximum

Base DC Voltage Range: 2 VDC

Key Features

Dual-channel simultaneous input with independent measurement capability

Calculation functions: Null, Smoothing, dB/dBm, Scaling, MAX/MIN, and Comparator

SRAM card slot (JEIDA Ver. 4 compliant) for data logging and PC compatibility

Memory function recalls panel settings on power-on

Type K thermocouple input with dedicated cold-junction compensator (LT1025)

Half-width 19" 2U rack or benchtop form factor

Manufactured in Japan

Interfaces & Integration

Standard RS-232C serial interface

Optional GPIB and BCD Data Output Units

Compatible with automated test systems via configurable interfaces

AC power input: 90 to 250 V

Optional battery unit for portable field measurements

Typical Applications

Manufacturing test floors, R&D laboratories, and integrated automated test systems benefit from the R6452A's dual-channel architecture and True RMS capabilities for AC measurements across industrial frequency ranges.

R6452A Characteristics / Specifications

PARAMETER	VALUE
Maximum Display	199999 counts
Dcv 2000 mV Accuracy	plus or minus 0.018 percent plus 5 digits
Dcv Resolution 200 mV	1 uV BChannel Dcv Accuracy: plus or minus 0.025 percent plus 2 digits BChannel Impedance: 10 MOhm plus or minus 5 percent between B terminals
Frequency Range	20 Hz to 200 kHz
Frequency Accuracy	plus or minus 0.02 percent plus 2 digits sine or square duty 3 or less
Temperature Range	minus 50 to 1370 C Type K Temperature Resolution: 0.1 C
Temperature Accuracy	plus or minus 0.15 percent plus 2.0 C
Resistance 2000 Ohm Accuracy	plus or minus 0.02 percent plus 5 digits
Dci 200 mA Accuracy	plus or minus 0.1 percent plus 6 digits
Aci 20 Hz To 1 kHz	plus or minus 0.6 percent plus 200 digits
Acv 45 Hz To 20 kHz	plus or minus 0.2 percent plus 200 digits
Sampling Fast	80 readings per second
Sampling Mid	10 readings per second
Sampling Slow	2.5 readings per second
Maximum Applied Voltage	1100 V DC or AC peak continuous
Continuity Judgment	20 Ohm on 200 Ohm range
Power Consumption	15 VA or less
Dimensions	approx 212 W x 88 H x 310 D mm
Mass	2.2 kg maximum main unit 3.5 kg with options
Operating Temperature	0 to 50 C
Remote Interface	RS-232C standard
Accuracy Temperature	23 plus or minus 5 C 85 percent RH or less 1 year
Acv Crest Factor	3:1 at full scale

R6452A Specifications

PARAMETER	VALUE
Advantest R6452A Digital Multimeter	Overview
Applications	Two-signal DCV comparison, frequency of AC sources, and Type-K temperature plus DMM work.
Dual channel input and dual display	Frequency measurement to 200 kHz
True RMS AC plus DC	RS-232 standard optional GPIB
Technical Specifications	Maximum Display: 199999 counts
Notes	From Advantest R6452A datasheet tables. Dual-channel DCV and frequency/temperature are R6452A functions not present on the R6451A.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 to 50 C
Operating Temperature	0 to 50 C
Remote Interface	RS-232C standard
Accuracy Temperature	23 plus or minus 5 C 85 percent RH or less 1 year
Acv Crest Factor	3:1 at full scale Notes From Advantest R6452A datasheet tables. Dual-channel DCV and frequency/temperature are R6452A functions not present on the R6451A.

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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Remote Interface	RS-232C standard
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Notes	
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present on the R6451A.

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.