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Data Sheet

August 14, 2026

ADVANTEST

Advantest R6452E Digital multimeter

The Advantest R6452E is the dual-input member of the R6451/R6452 5.5-digit DMM family. OEM family tables shared with R6452A list 199999 counts, DCV plus or minus 0.018 percent plus 5 digits, 1 uV resolution, dual-channel input, 80 rdgs/s fast mode, and true-RMS ACV. Two-channel DCV monitoring and 5.5-digit production test with RS-232 automation. Dcv 2000 mV Accuracy: plus or minus 0.018 percent plus 5 digits Dcv 20 V To 1000 V Accuracy: plus or minus 0.020 percent plus 5 digits Dimensions: approx 212 W x 88 H x 310 D mm Operating Temperature: 0 to 50 C 85 percent RH or less Accuracy Temperature: 23 plus or minus 5 C 1 year Series Family: Advantest R6451A R6452A R6452E



MODEL	CALIBRATION
Advantest R6452E	Available on request
CONDITION	STATUS
Used	In stock
RFQ / SKU	LISTING
R6452E	https://aumictechlabs.com/products/r6452e-2/

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Advantest R6452E is a dual-channel digital multimeter delivering simultaneous measurement of two independent signals with independent 5.5-digit displays. This full-function instrument combines high-resolution DC voltage accuracy (180 ppm + 5 digits) with sampling rates up to 80 SPS and support for thermocouple temperature measurement via rear-panel Type K input. Channel A offers nine measurement functions DC and AC voltage, DC and AC current, 2-wire and low-power resistance, frequency, diode test, and continuity - while Channel B supports DC voltage, DC current, and AC current measurement. True RMS conversion is native to all AC measurements. Technical Specifications Display Resolution: 199999 counts (5.5 digits) per channel Sampling Rates: FAST 80 SPS (1999-count max), MED 10 SPS, SLOW 2.5 SPS (199999-count max) DC Voltage Accuracy: 180 ppm + 5 digits at 23°C ±5°C, ≤85%

RH; temperature coefficient $0.1 \times (\text{measurement accuracy})/^{\circ}\text{C}$ across 0–50°C DC Voltage Range: 1 μV resolution, 0.001 V DC to 1.0 kV DC AC Voltage: 20 Hz to 100 kHz, 200 mV to 700 V, True RMS DC Current: 200 mA and 10 A ranges with 1 μA resolution (200 mA range) AC Current: 20 Hz to 5 kHz, 200 mA and 10 A ranges, True RMS Resistance Measurement: 2-wire and low-power modes with terminal resistance $\leq 1.5 \Omega$ (200 mA) or $\leq 0.04 \Omega$ (10 A) Frequency Measurement: Supported Temperature Input: Type K thermocouple, rear-panel connection Overcurrent Protection: 200 mA range: 0.5 A / 250 V IEC 127 fuse; 10 A range: 15 A / 250 V with 10,000-A interrupting capacity Power Supply: 90–250 V wide input range

Key Features Dual independent measurement channels with synchronized dual displays Channel A: nine complete measurement functions; Channel B: three core functions Native True RMS capability for accurate AC measurements on non-sinusoidal signals ± 5 digit accuracy with temperature tracking across operating range

Typical Applications Suitable for R&D, manufacturing, and quality control environments requiring simultaneous two-point signal verification and high-resolution electrical characterization.

Compatibility & Integration RS-232C standard interface Optional GPIB and BCD Data Output interfaces available SRAM Card memory (JEIDA Ver. 4) for data transfer to personal computers

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

R6452E 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
Dcv 20 V To 1000 V Accuracy	plus or minus 0.020 percent plus 5 digits
Dcv Input Impedance Low Ranges	1000 MOhm or more
Maximum Applied Voltage	1100 V DC or AC peak continuous
Resistance 2000 Ohm Accuracy	plus or minus 0.02 percent plus 5 digits
Resistance 200 MOhm Accuracy	plus or minus 2.0 percent plus 2 digits
Dci 200 mA Accuracy	plus or minus 0.1 percent plus 6 digits
Dci 10 A Accuracy	plus or minus 0.2 percent plus 6 digits
Acv 45 Hz To 20 kHz	plus or minus 0.2 percent plus 200 digits
Sampling Fast	80 readings per second
Sampling Slow	2.5 readings per second
Nmrr Slow	approx 60 dB
Cmrr Mid	approx 120 dB
Continuity Range	200 Ohm with 20 Ohm judgment
Power Consumption	15 VA or less
Dimensions	approx 212 W x 88 H x 310 D mm
Mass	2.2 kg maximum main unit
Operating Temperature	0 to 50 C 85 percent RH or less
Remote Interface	RS-232C standard
Accuracy Temperature	23 plus or minus 5 C 1 year
Series Family	Advantest R6451A R6452A R6452E
Input Architecture	Dual channel input R6452A/R6452E
Line Power	90 to 250 V wide range class

R6452E Specifications

PARAMETER	VALUE
Advantest R6452E Digital Multimeter	Overview
Applications	Two-channel DCV monitoring and 5.5-digit production test with RS-232 automation.
Dual channel input	199999 count slow mode
True RMS AC	RS-232 standard
Technical Specifications	Maximum Display: 199999 counts

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
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Remote Interface	RS-232C standard
Accuracy Temperature	23 plus or minus 5 C 1 year
Series Family	Advantest R6451A R6452A R6452E
Input Architecture	Dual channel input R6452A/R6452E
Line Power	90 to 250 V wide range class Notes From Advantest R6451A/R6452A/R6452E family DMM tables. R6452E shares dual-input architecture with R6452A; confirm frequency/temperature options on the installed unit.

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

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.