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Data Sheet

August 14, 2026

ADVANTEST

Advantest R6441A – Digital multimeter

Advantest R6441A 4.5 Digit Digital Multimeter The Advantest R6441A is the basic 4.5 digit R6441 series DMM with average-responding AC and a high speed analog bar graph. OEM R6441 series catalog lists 199999 maximum display at 2.5 rdg/s, 80 rdg/s fast sampling, DCV from 20 mV to 1000 V at 1 uV resolution and plus or minus 0.04 percent plus 2 digits best accuracy, and a 212 × 88 × 310 mm 2.2 kg package. Applications R and D bench and production DCV ohms current checks with optional battery field use and RS-232 automation. The Advantest R6441A is the basic 4.5 digit R6441 series DMM with average-responding AC and a high speed analog bar graph. OEM R6441 series catalog lists 199999 maximum display at 2.5 rdg/s, 80 rdg/s fast sampling, DCV from 20 mV to 1000 V at 1 uV resolution and plus or minus 0.04 percent plus 2 digits best accuracy, and a 212 × 88 × 310 mm 2.2 kg package. Applications R and D bench and production DCV ohms current checks with optional battery field use and RS-232 automation. AC Converter: average responding rms display



MODEL

Advantest R6441A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

R6441A

LISTING

<https://aumictechlabs.com/products/r6441a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Advantest R6441A is a 4.5-digit digital multimeter engineered for precision measurement across DC and AC voltage, and DC current applications in manufacturing, R&D, and quality control environments. The instrument features dual-channel input capability with dual display operation, integrating-type measurement circuitry, and selectable auto or manual range switching. A 7-

segment electron-ray indicator tube provides clear readings at sampling rates up to 80 samples/second. The R6441A forms the baseline of the R6441 series, with enhanced variants offering expanded AC measurement (R6441B) and specialized current measurement capabilities (R6441C). Technical Specifications DC voltage measurement spans 20 mV to 1000 V with resolution down to 1 μ V on the 20 mV range and accuracy from $\pm 0.04\%$ ± 5 digits (20–200 mV) to $\pm 0.07\%$ ± 10 digits (1000 V). Input impedance reaches 1 G Ω or more across 20 mV–200 V ranges. AC voltage measurement covers 200 mV to 700 V at 10 μ V to 100 mV resolution with frequency response from 20 Hz to 20 kHz ($\pm 0.2\%$ ± 30 d at 45 Hz to 20 kHz). DC current ranges span 20 mA to 10 A with 1 μ A to 1 mA resolution. Maximum display readings reach 199999 at 2.5 samples/second or 1999 at 80 samples/second. Input method is floating type; maximum allowable DC voltage is 1100 V continuous. AC voltage measurement handles up to 800 V_{rms} with 1100 V peak, includes 300 Hz to 100 kHz filter, and delivers response time of approximately 4 seconds. Key Features Dual-channel input with dual display for flexible measurement workflows Integrating measurement method for noise rejection: ~ 120 dB normal mode, ~ 60 dB common mode (50/60 Hz) Optional battery operation for field deployment (0–40°C operating range with battery) Memory function preserves panel settings between sessions Compact form factor: 212 (W) $\times$ 88 (H) $\times$ 310 (D) mm, 2.2 kg maximum Power consumption ≤ 15 VA; operates on 90–250 V AC mains Typical Applications Manufacturing test, quality assurance verification, laboratory research and development, field service and troubleshooting.

R6441A Characteristics / Specifications

PARAMETER	VALUE
Model	R6441A
AC Converter	average responding rms display
Display Maximum Slow	199999 at 2.5 readings per second
Sampling Fast	80 readings per second 3.5 digit 1999 display
DC Voltage Ranges	20 mV 200 mV 2000 mV 20 V 200 V 1000 V
DC Voltage Resolution 20 mV	1 uV
DC Voltage Accuracy Best	plus or minus 0.04 percent plus 2 digits 23 plus or minus 5 C
DC Voltage Input Impedance 20 mV 200 mV	1 GOhm or more
DC Voltage Input Impedance Higher Ranges	11.1 MOhm plus or minus 1 percent to 10.0 MOhm plus or minus 1 percent
DC Voltage Max Applied	1100 V all ranges continuous
AC Voltage Ranges	200 mV 2000 mV 20 V 200 V 700 V
AC Voltage Resolution 200 mV	10 uV
AC Voltage Max Applied	800 Vrms 1100 Vpeak 1e7 V Hz
Resistance Ranges	200 ohm to 20 MOhm 200 MOhm on ohms table
Resistance Resolution 200 ohm	10 mOhm
Resistance Accuracy 200 ohm Null	plus or minus 0.07 percent plus 10 digits
Resistance Open Circuit	7.5 V or less
DC Current RangesAB	20 mA 200 mA 2000 mA 10 A
DC Current Accuracy 20 mA	plus or minus 0.2 percent plus 5 digits
Overcurrent Protection 10 A	15 A / 250 V 10000 A interrupting capacity
CMRR Unbalanced 1 kOhm	approx 120 dB MID/SLOW 50/60 Hz plus or minus 0.1 percent DC
NMRR MID SLOW	approx 60 dB 50/60 Hz plus or minus 0.1 percent
Interface Standard	RS-232C 300 to 9600 baud
Power Consumption	15 VA or less

PARAMETER	VALUE
Dimensions	approx 212 W x 88 H x 310 D mm
Mass Main Unit	2.2 kg maximum
Mass With Options	3.5 kg maximum
Operating Temperature	0 to 50 C 0 to 40 C with battery
AC Line	90 to 250 V wide range specified at order 50 to 400 Hz class options 32 42 44
Battery Option R158	6 hour continuous operation
Dielectric COM to Chassis	450 V continuous

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 to 50 C 0 to 40 C with battery
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AC Line	90 to 250 V wide range specified at order 50 to 400 Hz class options 32 42 44
Battery Option R158	6 hour continuous operation
Dielectric COM to Chassis	450 V continuous Notes From Advantest R6441 Series 4 1/2 Digit DMM catalog specification tables. R6441A AC is average-responding; R6441B/C/D are true RMS.

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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AC Converter	average responding rms display
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DC Voltage Input Impedance 20 mV 200 mV: 1 GOhm or more	
Specifications	
PARAMETER	VALUE
DC Voltage Input Impedance Higher Ranges	11.1 MOhm plus or minus 1 percent to 10.0 MOhm plus or minus 1 percent
DC Voltage Max Applied	1100 V all ranges continuous
AC Voltage Ranges	200 mV 2000 mV 20 V 200 V 700 V
AC Voltage Resolution 200 mV	10 uV
AC Voltage Max Applied	800 Vrms 1100 Vpeak 1e7 V Hz
Resistance Ranges	200 ohm to 20 MOhm 200 MOhm on ohms table
Resistance Resolution 200 ohm	10 mOhm
Resistance Accuracy 200 ohm Null	plus or minus 0.07 percent plus 10 digits
Resistance Open Circuit	7.5 V or less
DC Current RangesAB	20 mA 200 mA 2000 mA 10 A
DC Current Accuracy 20 mA	plus or minus 0.2 percent plus 5 digits
Overcurrent Protection 10 A	15 A / 250 V 10000 A interrupting capacity
CMRR Unbalanced 1 kOhm	approx 120 dB MID/SLOW 50/60 Hz plus or minus 0.1 percent DC
NMRR MID SLOW	approx 60 dB 50/60 Hz plus or minus 0.1 percent
Interface Standard	RS-232C 300 to 9600 baud

PARAMETER	VALUE
Power Consumption	15 VA or less
Dimensions	approx 212 W x 88 H x 310 D mm
Mass Main Unit	2.2 kg maximum
Mass With Options	3.5 kg maximum
Operating Temperature	0 to 50 C 0 to 40 C with battery
AC Line	90 to 250 V wide range specified at order 50 to 400 Hz class options 32 42 44
Battery Option R15807	6 hour continuous operation
Dielectric COM to Chassis	450 V continuous

Notes

From Advantest R6441 Series 4 1/2 Digit DMM catalog specification tables. R6441A AC is average-responding; R6441B/C/D are true RMS.

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.