

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 14, 2026

ADVANTEST

Advantest R6552 Digital multimeter

The Advantest R6552 is a GPIB/RS-232 digital multimeter in the R655x family. OEM R6552 series specification summary lists DC voltage 100 mV to 1000 V, AC voltage 100 mV to 750 V, DC/AC current 100 μ A to 10 A, resistance 100 Ω to 100 M Ω , frequency 10 Hz to 300 kHz, and 3.5 kg mass. General purpose bench and system DMM work including current to 10 A and frequency. DC/ACV/resistance frequency temperature capacitance functions per series table Temperature Range: minus 200 C to 1000.00 C DC/ACV/resistance frequency temperature capacitance functions per series table Temperature Range: minus 200 C to 1000.00 C Functions: DCV ACV DCI ACI resistance frequency temperature capacitance From Advantest R6552 Series specification summary table. Finer 1 year accuracy rows remain in the R6552 printed specification chapter.



MODEL

Advantest R6552

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

R6552

LISTING

<https://aumictechlabs.com/products/r6552-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Advantest R6552 is a 5.5-digit digital multimeter engineered for precision measurement across R&D, manufacturing, and service environments. It delivers DC and AC voltage and current measurements, resistance in 2-wire and 4-wire configurations, frequency analysis, and diode testing with True RMS accuracy. The 319,999-count fluorescent display and sampling speeds up to 1000 samples/sec in BURST mode enable rapid signal capture, while GPIB and RS232 interfaces support remote automation and data logging. Specialized modes - including (AC+DC)

measurement for distorted waveforms and LONG-IT averaging - extend measurement capability in challenging signal conditions.

Technical Specifications

Measurement Functions:

- DC Voltage: 30 mV to 1000 V, 0.1 μ V resolution, 100 M Ω input impedance (lower ranges), 10.0 M Ω (higher ranges)
- AC Voltage: 300 mV to 700 V, True RMS, 20 Hz to 300 kHz, (AC+DC) capability for distorted waveforms
- DC Current: 3000 μ A to 3000 mA, 10 nA resolution
- AC Current: 3000 μ A to 3000 mA, True RMS, 20 Hz to 300 kHz
- Resistance: 30 Ω to 300 M Ω (2-wire and 4-wire), 100 $\mu\Omega$ resolution, low-power mode available
- Frequency: DC to 300 kHz measurement
- Diode and continuity testing

Display & Sampling: 5.5-digit fluorescent display, 319,999 counts maximum

FAST mode: 100 samples/sec (1000 samples/sec BURST); **MED:** 20 samples/sec; **SLOW:** 5 samples/sec

LONG-IT mode: integral time 100 ms to 60 s in 10 ms steps

Accuracy (1-year stability): DC Voltage: $\pm 0.01\%$ of reading AC Voltage: $\pm 0.06\%$ of reading DC Current: $\pm 0.05\%$ of reading

Key Features

- True RMS AC measurement eliminates error from waveform distortion
- Low-power resistance mode reduces self-heating during testing
- Bargraph display provides visual feedback alongside numeric readout
- High input impedance (100 M Ω minimum) minimizes circuit loading on voltage measurements

Typical Applications

- Component characterization and quality verification
- In-circuit troubleshooting and signal validation
- Automated test system integration via GPIB or RS232

Compatibility & Integration

GPIB interface complies with IEEE-488.2-1987 (SH1, AH1, T5, L4, SR1, RL1, PP0, DC1, DT1, C0, E2). RS232 serial connection supports direct instrument control and remote data acquisition.

R6552 Characteristics / Specifications

PARAMETER	VALUE
Model	R6552
Instrument Type	digital multimeter
DC Voltage Range	100 mV to 1000 V
AC Voltage Range	100 mV to 750 V
DC Current Range	100 uA to 10 A
AC Current Range	100 uA to 10 A
Resistance Range	100 ohm to 100 MOhm
Frequency Range	10 Hz to 300 kHz
Temperature Range	minus 200 C to 1000.00 C
Display	LCD
Interface	GPIB RS-232
Line Power	100 V to 240 V AC 50/60 Hz
Mass	3.5 kg
Functions	DCV ACV DCI ACI resistance frequency temperature capacitance
Series Family	Advantest R6552 series
Form Factor	benchtop
Current High Range	10 A
Voltage DC High Range	1000 V
Voltage AC High Range	750 V
Resistance High Range	100 MOhm
Frequency High End	300 kHz
Temperature High End	1000 C
Line Frequency	50/60 Hz

R6552 Specifications

PARAMETER	VALUE
Advantest R6552 Digital Multimeter	Overview
Applications	General purpose bench and system DMM work including current to 10 A and frequency.
Technical Specifications	Model: R6552
Notes	From Advantest R6552 Series specification summary table. Finer 1 year accuracy rows remain in the R6552 printed specification chapter.

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	
PARAMETER	VALUE
Model	R6552
Instrument Type	digital multimeter
DC Voltage Range	100 mV to 1000 V
AC Voltage Range	100 mV to 750 V
DC Current Range	100 uA to 10 A
AC Current Range	100 uA to 10 A
Resistance Range	100 ohm to 100 MOhm
Frequency Range	10 Hz to 300 kHz
Temperature Range	minus 200 C to 1000.00 C
Display	LCD
Interface	GPIB RS-232
Line Power	100 V to 240 V AC 50/60 Hz
Mass	3.5 kg
Functions	DCV ACV DCI ACI resistance frequency temperature capacitance
Series Family	Advantest R6552 series
Form Factor	benchtop
Current High Range	10 A
Voltage DC High Range	1000 V
Voltage AC High Range	750 V
Resistance High Range	100 MOhm
Frequency High End	300 kHz
Temperature High End	1000 C
Line Frequency	50/60 Hz
Notes	
From Advantest R6552 Series specification summary table. Finer 1 year accuracy rows remain in the R6552 printed specification chapter.	

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 ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 14, 2026

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