

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 15, 2026

ADVANTEST

Advantest R5363 Frequency counter

The Advantest R5363 is a frequency counter for RF frequency measurements in development and production environments. OEM Advantest counter documentation positions the R5363 for high-resolution frequency counting with standard lab connectivity. RF frequency measurement, production crystal/oscillator checks, and general-purpose frequency counting. Primary Use: RF/electronics frequency measurement Input Channels Class: Frequency counter input class RF frequency measurement, production crystal/oscillator checks, and general-purpose frequency counting. Primary Use: RF/electronics frequency measurement Input Channels Class: Frequency counter input class Frequency Range Class: Per R5363 input tables



MODEL

Advantest R5363

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

R5363

LISTING

<https://aumictechlabs.com/products/r5363-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Advantest R5363 is a high-speed frequency counter engineered for precision measurements across multiple parameters. It performs frequency, cycle, pulse width, and totalized count measurements with continuous operation capability - acquiring up to 14,000 data points without measurement interruption. The instrument delivers 10-digit resolution per second using a 100 ns reference clock and Advantest's proprietary Reciprocal Method, which magnifies fractional parts up to 1,000 times to achieve measurement sensitivity equivalent to a 100 ps clock. Built-in data processing includes OK/NG decision logic, PPM display, and statistical computing functions for immediate result analysis. Technical Specifications Measurement Functions: Frequency, Cycle,

Pulse Width, Totalized Count Measurement Rate: Continuous; up to 14,000 data points without pauses Display: 10-digit Internal Clock: 100 ns reference Resolution: Equivalent to 100 ps clock via 1,000× magnification of fractional parts (Reciprocal Method) Power Supply: DC and AC drive; optional battery pack (TR15801A/B) Standard Interface: GPIB Optional Interfaces: BCD output unit (R13017), DA output unit (R13018) Key Features High-resolution averaging measurement with 10-digit per-second display Reciprocal Method magnification extends measurement resolution 1,000 times Continuous measurement capability minimizes downtime OK/NG decision and PPM display for production testing Statistical computing for multi-point analysis Low radiation design using EMI techniques Active cooling fan prevents thermal drift Horizontal operation orientation Typical Applications Electronics testing and characterization Component calibration verification Telecommunications frequency validation Automated test systems (via GPIB) Manufacturing quality assurance with statistical data logging Compatibility & Integration The R5363 connects to test systems via standard GPIB interface. BCD and DA output units (R13017 and R13018) enable integration with legacy digital and analog control systems. Optional battery pack (TR15801A/B) supports portable or field measurement scenarios. Optimal performance requires operation in a stable, temperature-controlled environment free from vibration, moisture, and magnetic interference, with minimum 10 cm clearance around air vents.

R5363 Characteristics / Specifications

PARAMETER	VALUE
Model	R5363
Instrument Type	Frequency counter
Manufacturer	Advantest
Measurement Function	Frequency counting
Primary Use	RF/electronics frequency measurement
Chassis Form	Benchtop counter
Brand Lineage	Advantest
Input Channels Class	Frequency counter input class
Frequency Range Class	Per R5363 input tables
Resolution Class	Per gate-time / digits table
Gate Time Class	Selectable gate times per sheet
Sensitivity Class	Per input sensitivity table
Input Impedance Class	Per input termination table
Damage Level Class	Per maximum input rating table
Display	Digital frequency display class
Remote Interface Class	GPIB class where equipped
Operating Temperature Spec Class	Follow R5363 sheet
Power Class	AC mains benchtop supply
Documentation Scope	OEM Advantest R5363 documentation
Installed Options	Determine range and interface options
Warmup Spec Class	Follow counter accuracy warm-up
Timebase Class	Internal timebase; external ref class if equipped
Related Instruments	TR5153 universal counter sibling class
Operating temperature	Spec Class: Follow R5363 sheet

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Spec Class: Follow R5363 sheet
Operating Temperature	Spec Class: Follow R5363 sheet
Operating Temperature Spec Class	Follow R5363 sheet
Power Class	AC mains benchtop supply
Documentation Scope	OEM Advantest R5363 documentation
Installed Options	Determine range and interface options
Warmup Spec Class	Follow counter accuracy warm-up
Timebase Class	Internal timebase; external ref class if equipped
Related Instruments	TR5153 universal counter sibling class Notes From Advantest R5363 frequency counter documentation. Exact maximum frequency and sensitivity are on the R5363 specification sheet / faceplate.

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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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.