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Data Sheet
August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 4338B

The Agilent 4338B isamilliohm meter designed for low-resistance measurements with high resolution and selectable test currents. OEM 4338B materials list measurement ranges into the milliohm region for contact resistance bonding and winding resistance tests. Contact resistance testing, bonding integrity checks, and low-resistance component measurements. Measurement Focus: low resistance milliohm class Measurement Method: 4 terminal Kelvin class Calibration: open short class compensation Operating Temperature Class: standard laboratory class Firmware Upgrade Path: not typically field optioned class From Agilent 4338B milliohm meter documentation. Exact range and current tables are current-setting dependent; cite the data sheet for the selected range.

MODEL **Agilent / Keysight 4338B**	CALIBRATION **Available on request**
CONDITION **Used**	STATUS **In stock**
RFQ / SKU **4338B**	LISTING **https://aumictechlabs.com/products/4338b-2/**

NIST-traceable cal · SAM registered · 30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 4338B is a precision milliohmmeter engineered for low-resistance measurements across a wide range of industrial and laboratory applications. Operating at 1 kHz AC, it delivers measurement speeds as fast as 34 ms with 0.4% basic accuracy, making it suitable for high-volume testing of electromechanical components, batteries, cables, and PC boards.Technical Specifications Measurement Range: 10 µΩ to 100 kΩ Resolution: 10 µΩ Test Current Levels: Selectable AC signal from 1 µA to 10 mA (1 µA, 10 µA, 100 µA, 1 mA, 10 mA) Test Frequency: 1 kHz Maximum Applied AC Voltage: 20 mV peak Measurement Speed: 34 ms

minimum Basic Accuracy: 0.4% Parameters Measured: R, X, |Z|, L, θ Power Requirements: 90–132 Vac or 198–264 Vac, 47–66 Hz, 45 VA typicalKey Features Contact check function ensures reliable connections during measurement Built-in comparator with HIGH, IN, and LOW settings for pass/fail testing Auto-measurement mode optimized for very low resistances via AC test signal Error correction maximizes accuracy across the measurement range Non-volatile memory maintains operation through AC power loss GPIB interface for automated testing and computer control Isolated handler interface reduces ground loops in manufacturing environmentsTypical Applications Electromechanical components, battery testing, cable continuity verification, and PC board resistance characterization.Compatibility & Integration The 4338B accepts a range of test leads and accessories including the 16338A Test Lead Kit (Kelvin clip, pin, and alligator leads), 42091A 4-terminal pair short termination for calibration, 42030A standard resistor set (1 mΩ to 100 kΩ), and optional 4338B-1CM rackmount or 4338B-1CN front handle kits.

4338B Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	milliohm meter
Series Family	Agilent 4338B
Measurement Focus	low resistance milliohm class
Measurement Method	4 terminal Kelvin class
Test Current	selectable
Display	numeric milliohm display
Basic Accuracy Class	high accuracy low ohm class
Comparator Function	available class
Handler Interface	available class
Zero Offset Compensation	supported
Measurement Speed Class	selectable
Sibling High Resistance	4339B
Cable Compensation	supported class
Trigger Modes	internal external class
Protection Class	input protection for low ohm meter class
Power Line Frequency Setting	50 or 60 Hz class
Calibration	open short class compensation
Remote Interface	GPIB
Form Factor	benchtop meter
Operating Temperature Class	standard laboratory class
Power Mains Class	100 to 240 VAC class
Firmware Upgrade Path	not typically field optioned class
Operating temperature	Class: standard laboratory class

4338B Specifications

PARAMETER	VALUE
Agilent 4338B Milliohm Meter	Overview
Applications	Contact resistance testing, bonding integrity checks, and low-resistance component measurements.
Selectable test current	4 terminal measurement architecture
Technical Specifications	Instrument Type: milliohm meter

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: standard laboratory class
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Operating Temperature Class	standard laboratory class
Power Mains Class	100 to 240 VAC class
Firmware Upgrade Path	not typically field optioned class Notes From Agilent 4338B milliohm meter documentation. Exact range and current tables are current-setting dependent; cite the data sheet for the selected range.

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

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