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Data Sheet

August 14, 2026

HP / AGILENT

HP / Agilent 3468B 5.5 digit DMM w/ HP-IL, rack/stack case

HP Agilent 3468B 5.5 Digit Digital Multimeter The HP 3468B is an autoranging 5.5-to-3.5-digit five-function digital multimeter with HP-IL interface for portable and systems use. Companion to the 3468A/3478A measurement engine with true-rms AC and 2-wire/4-wire ohms. Service and production DMM measurements of volts current and resistance, HP-IL automated logging, and battery-option field work. Selectable 5.5 4.5 or 3.5 digit resolution The HP 3468B is an autoranging 5.5-to-3.5-digit five-function digital multimeter with HP-IL interface for portable and systems use. Companion to the 3468A/3478A measurement engine with true-rms AC and 2-wire/4-wire ohms. Service and production DMM measurements of volts current and resistance, HP-IL automated logging, and battery-option field work. Selectable 5.5 4.5 or 3.5 digit resolution DC Voltage Sensitivity: 1 μ V on 0.3 V range



MODEL

HP / Agilent 3468B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

3468B

LISTING

<https://aumictechlabs.com/products/3468b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The HP/Agilent 3468B is a 5.5-digit digital multimeter engineered for precision bench and systems measurement with integrated HP-IL programmability. This rack/stack case instrument delivers six core measurement functions: DC volts, True RMS AC volts, 2-wire and 4-wire resistance, DC current, and True RMS AC current. The selectable resolution modes - 5.5, 4.5, or 3.5 digits - allow

engineers to trade measurement speed against noise rejection; at 3.5-digit resolution, the 3468B achieves up to 31 readings per second with fast autoranging across all functions.

Technical Specifications

Display & Resolution 5.5-digit alphanumeric LCD Selectable 5½, 4½, or 3½ digit resolution modes

Measurement speed: Up to 31 readings/sec in 3½ digit mode

DC Voltage Ranges: 0.3 V to 300 V

Input sensitivity: 1 µV

Input impedance: $>10^{10} \Omega$ on 0.3 V and 3 V ranges; $10 \text{ M}\Omega \pm 1\%$ on 30 V and 300 V ranges

Maximum non-destructive input (Hi to Lo): 301 Vrms or 450 V peak

Maximum non-destructive input (Hi or Lo to Earth): $\pm 500 \text{ V}$ peak

True RMS AC Voltage Bandwidth: 20 Hz to 100 kHz on all ranges; 20 Hz to 300 kHz on 30 V range

Crest factor: $>4:1$ at full scale

Maximum non-destructive input: 301 Vrms or 450 V peak

Resistance 2-wire and 4-wire measurement to $30 \text{ M}\Omega$ maximum

Current DC and True RMS AC current: Up to 3 A

AC bandwidth: 20 Hz to 20 kHz

Key Features

- Electronic calibration without internal adjustments
- Fast autoranging across all measurement functions
- HP-IL serial interface for remote control and automated data acquisition
- Power: 48–440 Hz, 86–250 VAC line supply
- Optional rechargeable battery (Option 001): Up to 5 hours continuous operation; 16 hours recharge off, 36 hours recharge on

Typical Applications

System integration into automated test racks, calculator-based measurement setups, and laboratory data acquisition systems requiring mid-range DC/AC voltage and current characterization.

Compatibility & Integration

HP-IL token-passing ring network supports up to 31 devices per loop (960 with extensions), enabling connection to HP-41C calculators and computers. Standard cable: 10 m maximum distance; shielded twisted-pair: 100 m maximum. Theoretical data rate 20,000 bytes/sec; practical throughput approximately 2,000 bytes/sec.

3468B Characteristics / Specifications

PARAMETER	VALUE
Display Digits Selectable	5.5 to 3.5
DC Voltage Ranges	0.3 V 3 V 30 V 300 V
DC Voltage Sensitivity	1 μ V on 0.3 V range
DC Best Accuracy 3 V 24 h	plus or minus (0.0035 percent of reading plus 2 counts)
DC Input Resistance Low Ranges	greater than 10 GOhm on 0.3 V and 3 V
DC Input Resistance High Ranges	10 MOhm plus or minus 1 percent on 30 V and 300 V
Maximum Input Hi to Lo	301 V rms or 450 V peak
Maximum Input to Earth	plus or minus 500 V peak
AC Voltage Ranges	0.3 V to 300 V
AC Bandwidth Class	to 300 kHz true rms
AC Input Impedance	1 MOhm shunted by less than 60 pF
Resistance Ranges	300 Ohm to 30 MOhm
Resistance Sensitivity	1 mOhm
Ohms Open Circuit Voltage	6.5 V
DC Current Ranges	300 mA and 3 A
AC Current Ranges	300 mA and 3 A
Burden Voltage Low Current	0.1 V
Burden Voltage High Current	1 V
Remote Interface	HP-IL
Form Factor	Portable benchtop DMM
Autoranging	yes
Five Functions	DCV ACV DCI ACI Ohms
Bandwidth	Class: to 300 kHz true rms

3468B Specifications

PARAMETER	VALUE
HP Agilent 3468B 5.5 Digit Digital Multimeter	Overview
Key Features	Selectable 5.5 4.5 or 3.5 digit resolution
True rms AC to 300 kHz class	2 wire and 4 wire ohms
Technical Specifications	Display Digits Selectable: 5.5 to 3.5
Notes	Specs from HP 3468A/B operating literature; 3468B shares the measurement architecture with HP-IL.

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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PARAMETER	VALUE
Display Digits Selectable	5.5 to 3.5
DC Voltage Ranges	0.3 V 3 V 30 V 300 V
DC Voltage Sensitivity	1 uV on 0.3 V range
DC Best Accuracy 3 V 24 h	plus or minus (0.0035 percent of reading plus 2 counts)
DC Input Resistance Low Ranges	greater than 10 GOhm on 0.3 V and 3 V
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Maximum Input Hi to Lo	301 V rms or 450 V peak
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AC Voltage Ranges	0.3 V to 300 V
AC Bandwidth Class	to 300 kHz true rms
AC Input Impedance	1 MOhm shunted by less than 60 pF
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Resistance Sensitivity	1 mOhm
Ohms Open Circuit Voltage	6.5 V
DC Current Ranges	300 mA and 3 A
AC Current Ranges	300 mA and 3 A
Burden Voltage Low Current	0.1 V
Burden Voltage High Current	1 V
Remote Interface	HP-IL
Option 001: Rechargeable battery pack	
Specifications	
PARAMETER	VALUE
Form Factor	Portable benchtop DMM
Autoranging	yes
Five Functions	DCV ACV DCI ACI Ohms

Notes

Specs from HP 3468A/B operating literature; 3468B shares the measurement architecture with HP-IL.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

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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.