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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 3403C

HP Agilent 3403C True RMS Voltmeter DC to 100 MHz The HP 3403C is a true-RMS digital voltmeter for DC, AC, and AC+DC. HP Memory Project and 3403C operating literature list full-range displays of 10 mV (AC only) through 1000 V, 2 Hz to 100 MHz at 10 s response or 25 Hz to 100 MHz at 1 s response, 3.5-digit readout, and 10 MOhm / 24 pF input below 10 MHz. True-RMS measurement of noise, multiplexed signals, modulated carriers, and high-harmonic waveforms from audio through VHF. Optional autoranging remote/BCD and dB display The HP 3403C is a true-RMS digital voltmeter for DC, AC, and AC+DC. HP Memory Project and 3403C operating literature list full-range displays of 10 mV (AC only) through 1000 V, 2 Hz to 100 MHz at 10 s response or 25 Hz to 100 MHz at 1 s response, 3.5-digit readout, and 10 MOhm / 24 pF input below 10 MHz. True-RMS measurement of noise, multiplexed signals, modulated carriers, and high-harmonic waveforms from audio through VHF. Optional autoranging remote/BCD and dB display Floating adapter banana-to-BNC accessory path



MODEL

**Agilent / Keysight
3403C**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

3403C

LISTING

<https://aumictechlabs.com/products/3403c-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 3403C is a True RMS voltmeter engineered for precision AC and DC voltage measurements across frequencies from DC to 100 MHz. It excels at characterizing complex signals - noise, multiplexed waveforms, modulated carriers, and signals with significant harmonic content - where True RMS accuracy is essential. Though discontinued, the instrument remains

valuable for laboratory and field applications demanding reliable broadband voltage analysis. Technical Specifications Measurement Functions & Range DC, AC, and AC + DC True RMS measurements Six voltage ranges: 10.00 mV (AC only), 100.0 mV, 1.000 V, 10.00 V, 100.0 V, 1000 V AC frequency span: 2 Hz to 100 MHz (Slow response); 25 Hz to 100 MHz (Fast response) >90% overrange capability on all ranges, subject to maximum input voltage limits Crest factor: 10:1 at full range Overage annunciator at ~190% of full scale; underrange at ~17% of full scale Response & Display Fast response: 1 second to $\pm 0.1\%$ of input change; 4 readings/second Slow response: 10 seconds to $\pm 0.1\%$ of input change; 2 readings/second Input Characteristics Input impedance below 10 MHz: 10 M Ω $\pm 10\%$ (1 V–1000 V ranges, 24 pF $\pm 10\%$ shunt); 20 M Ω $\pm 10\%$ (10 mV/100 mV ranges, 20 pF $\pm 10\%$ shunt) Maximum input: 1000 V RMS, 1500 V peak across all ranges Maximum DC in AC mode: 500 V DC Floated low to chassis: ± 500 V DC (requires special banana-to-BNC adapter) Accuracy: 0.4% to 10% depending on range and frequency DC zero adjustment available Input & Output BNC front panel connector standard (low-to-high terminals) Analog recorder outputs for continuous monitoring dB recorder output: 200 mV for 20 dB, 1 k Ω ± 500 Ω output impedance Rear panel connector option (AC converter module reversal) Key Features Selectable Fast/Slow response modes for signal characterization flexibility Optional autoranging (Opt 001) or autoranging with remote control and digital output (Opt 003) dB display option (Opt 006) with front-panel reference adjustment Dual power supply: 115 V or 230 V $\pm 10\%$, 48 Hz to 440 Hz Maximum power consumption: 35 VA Typical Applications Broadband AC/DC voltage measurement in complex signal environments Harmonic and noise characterization on communication and power systems Modulated signal analysis across 2 Hz to 100 MHz Laboratory metrology requiring True RMS accuracy Compatibility & Integration Analog and dB recorder outputs enable integration with strip-chart recorders and data acquisition systems. Remote control capability via Opt 003 supports automated test sequences. BNC and internal rear connector options accommodate various measurement configurations.

3403C Characteristics / Specifications

PARAMETER	VALUE
Model	3403C
Instrument Type	True RMS voltmeter
Functions	DC AC and AC plus DC
Display Digits	3.5 LED
Full Range 10 mV	AC only
Full Range Steps	10 mV 100 mV 1 V 10 V 100 V 1000 V
Ac Frequency 10 s Response	2 Hz to 100 MHz
Ac Frequency 1 s Response	25 Hz to 100 MHz
Slow Response Time	10 s to 0.1 percent of signal
Fast Response Time	1 s to 0.1 percent of signal
Input Impedance Below 10 MHz	10 MOhm 24 pF
Crest Factor At Full Range	10 to 1
Maximum Input	1 kV rms on any range
Db Reference When Calibrated	0 dB equals 1.000 V
Autoranging Option Code	001
Remote Digital Output Option Code	003
Db Display Option Code	006
Mechanical Package	benchtop
Manufacturer	HP Agilent Keysight
Analog Output	recorder outputs
Dc Zero	front panel adjustment
Input Connector	floating capable

3403C Specifications

PARAMETER	VALUE
HP Agilent 3403C True RMS Voltmeter DC to 100 MHz	Overview
DC AC and AC plus DC true RMS	Optional autoranging remote/BCD and dB display
Technical Specifications	Model: 3403C

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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Db Reference When Calibrated	0 dB equals 1.000 V
Autoranging Option Code	001
Remote Digital Output Option Code	003
Db Display Option Code	006
Mechanical Package	benchtop
Manufacturer	HP Agilent Keysight
Analog Output	recorder outputs
Dc Zero	front panel adjustment
Input Connector	floating capable
Notes	
Numeric rows from HP 3403C True RMS Voltmeter literature and the HP Memory Project 3403C specification summary. Accuracy varies with range and frequency on the OEM accuracy table matching the serial prefix.	

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