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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 400E

The HP 400E is a solid-state AC voltmeter covering 1 mV to 300 V full scale in 12 ranges from 10 Hz to 10 MHz. OEM 400E/400EL Table 1-1 lists average-responding calibration in rms volts, 10 megohm input, amplifier AC output of 150 mV rms at full scale into 50 ohms, and accuracy specified as percent of full scale plus percent of reading versus frequency. The 400E meter has a linear AC scale with a logarithmic dB scale underneath. Audio through HF AC voltage measurements, dB metering, and use as a wideband AC-to-DC converter or amplifier. Audio through HF AC voltage measurements, dB metering, and use as a wideband AC-to-DC converter or amplifier. AC amplifier and AC-to-DC converter outputs Companion 400EL is the linear-dB scale sibling Voltage Range: 1 mV full scale to 300 V full scale in 12 ranges



MODEL

**Agilent / Keysight
400E**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

400E

LISTING

<https://aumictechlabs.com/products/400e-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 400E is a precision AC voltmeter designed for voltage and decibel measurements across audio through RF frequencies. The instrument features dual scales - linear AC voltage and logarithmic dB - making it suitable for signal analysis, testing, and calibration work where accurate RMS response is required. Technical Specifications Voltage Measurement: 1 mV to 300 V full scale across 12 ranges Frequency Range: 10 Hz to 10 MHz dB Range: -72 dBm to +52 dBm Input Impedance: 10 MΩ on all ranges Input Capacitance: Less than 25 pF typical; less than 12 pF on select ranges Overload Protection: 500 V RMS AC; 300 V DC maximum AC Amplifier

Output: 150 mV RMS open circuit at full-scale meter indication
Meter Calibration: Absolute average value response; calibrated in RMS volts
Weight: Approximately 10 lbs
Key Features
Frequency response from 10 Hz to 10 MHz enables measurement across audio, low RF, and VHF applications
Accuracy of $\pm 1\%$ across 40 Hz to 2 MHz band; $\pm 2\%$ at 20–40 Hz and 2–4 MHz; $\pm 4\%$ at 10–20 Hz and 4–10 MHz
High input impedance ($10\text{ M}\Omega$) minimizes circuit loading during measurement
Low input capacitance reduces frequency-dependent effects on high-impedance sources
Dual-scale readout permits direct voltage and dB level assessment without conversion
AC to DC converter or wideband amplifier operation extends utility beyond standard voltmeter function
Typical Applications
Audio and subsonic signal measurement
RF and microwave circuit testing up to 10 MHz
Signal calibration and verification
Frequency response analysis requiring RMS-calibrated response
Compatibility & Integration
The 400E operates as a standalone instrument. AC amplifier output (150 mV RMS at full scale) permits integration with external recording or analysis equipment.

400E Characteristics / Specifications

PARAMETER	VALUE
Model	400E
Instrument Type	AC voltmeter
Voltage Range	1 mV full scale to 300 V full scale in 12 ranges
Db Scale	minus 10 to plus 2 dB, 10 dB between ranges
Frequency Range	10 Hz to 10 MHz
Calibration	responds to absolute average value, calibrated in rms volts
Input Impedance Low Ranges	10 megohms shunted by less than 25 pF on 1 mV to 1 V ranges
Input Impedance High Ranges	10 megohms shunted by less than 12 pF on 3 V to 300 V ranges
Amplifier Ac Output	150 mV rms for full scale meter indication (105 mV on 1 mV range)
Amplifier Output Impedance	50 ohms, 10 Hz to 10 MHz
Amplifier Accuracy	plus or minus 10%, 10 Hz to 4 MHz
Ac To Dc Converter Output	1 V DC for full scale meter deflection (linear for 400E/EL)
Converter Output Resistance	1000 ohms plus or minus 5%
Converter Response Time	1 second to within 1% of final value for a step change
Accuracy 3 Mv To 300 V 40 Hz To 2 Mhz	plus or minus (1% of full scale plus 1% of reading) class per Table 1-1
Line Power	115 or 230 V plus or minus 10%, 50 to 400 Hz, 5 W
Temperature Range	0 to plus 55 C (except where noted on accuracy charts)
External Battery	plus and minus 35 V to 55 V, 50 to 75 mA
Net Mass	6 lb (2.7 kg)
Shipping Mass	8 lb (4 kg)
Dimensions	6.5 in H by 5.125 in W by 11 in D (165.1 by 130.2 by 279.4 mm)
Sibling Model	400EL (linear dB scale, logarithmic AC scale)

400E Specifications

PARAMETER	VALUE
HP Agilent 400E AC Voltmeter	Overview
Applications	Audio through HF AC voltage measurements, dB metering, and use as a wideband AC-to-DC converter or amplifier.
Key Features	Linear AC scale with dB scale underneath
External battery terminals on rear panel	Companion 400EL is the linear-dB scale sibling
Technical Specifications	Model: 400E

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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Notes

From HP Models 400E/400EL AC Voltmeter Table 1-1 specifications. Frequency-banded accuracy charts in the manual give the full (% FS + % reading) table including the 1 mV range.

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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NIST-traceable calibration · SAM registered ·
30-day returns
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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.