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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 400F

The HP 400F is a solid-state AC voltmeter covering 100 μ V to 300 V full scale in 14 ranges from 20 Hz to 4 MHz. OEM 400F/FL Table 1-1 lists average-responding rms calibration, 10 megohm input, 1 V rms open-circuit amplifier output into 600 ohms, and 400F accuracy as percent of full scale plus percent of reading (plus or minus $(0.5 + 0.5)$ from 100 Hz to 1 MHz on 300 μ V to 300 V ranges). Low-level AC voltage measurements from 100 μ V, audio through 4 MHz, and use as a 600 ohm monitor amplifier. Taut-band mirror-backed meter with 100 divisions Low-level AC voltage measurements from 100 μ V, audio through 4 MHz, and use as a 600 ohm monitor amplifier. Taut-band mirror-backed meter with 100 divisions Companion 400FL is the linear-dB scale sibling Voltage Range: 100 μ V to 300 V full scale, 14 ranges in 1 3 10 sequence



MODEL

**Agilent / Keysight
400F**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

400F

LISTING

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

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 400F is a function generator engineered for electronic testing, circuit design, and laboratory applications. It delivers precise signal generation across standard and arbitrary waveforms with exceptional time resolution and low distortion. The instrument combines flexible modulation capabilities, dual-channel operation, and Trueform technology to meet demanding measurement and signal synthesis requirements. Technical Specifications Waveform Generation Standard waveforms: sine, square, triangle, ramp, pulse, noise, DC volts; optional $\sin(x)/x$, exponential rise/fall, and cardiac profiles Arbitrary waveform memory: 1 MSa/channel standard;

options for 16 MSa/channel or up to 64 MSa depending on model Sampling rate: up to 160 MSa/s; select models support 250 MSa/s or 1 GSa/s Amplitude resolution: 16-bit (12-bit on certain models) Output amplitude: 1 mVpp to 10 Vpp Harmonic distortion: <0.04% THD for sine waves to 20 kHz and general arbitrary waveforms; 5× lower than traditional DDS generators Jitter: <1 ps to <40 ps depending on model; pulses to 20 MHz exhibit 10× lower jitter than conventional designs

Frequency and Signal Characteristics Frequency range: up to 15 MHz, 30 MHz, 100 MHz, or 120 MHz depending on model configuration Amplitude accuracy: ±0.5 dB

Modulation and Advanced Features Modulation modes: AM, FM, FSK, BPSK, PWM, and Sum (carrier + modulation) Sweep and burst capability Pulse generation: up to 20 MHz with precise timing; high-bandwidth pulse output to 100 MHz with independent leading and trailing edge control Dual-channel operation with independent or coupled channel control, including frequency/amplitude coupling and differential output options

Trueform technology: proprietary architecture delivering enhanced signal fidelity and reduced jitter versus DDS generators

Key Features User-defined, point-by-point arbitrary waveforms with sequencing for complex signal representation Precise timing and pulse edge control for demanding applications Low-distortion sine wave generation for analog and RF testing Flexible modulation framework supporting standard and custom schemes

Typical Applications RF and analog circuit design and validation Pulse and timing measurement Modulation and signal integrity testing Educational laboratory use

Compatibility & Integration Standard interface connectivity available for laboratory integration.

400F Characteristics / Specifications

PARAMETER	VALUE
Model	400F
Instrument Type	AC voltmeter
Voltage Range	100 μ V to 300 V full scale, 14 ranges in 1 3 10 sequence
Frequency Range	20 Hz to 4 MHz
Calibration	responds to absolute average value, calibrated in rms volts
Input Impedance Low Ranges	10 megohms shunted by 25 pF on 100 μ V to 300 mV ranges
Input Impedance High Ranges	10 megohms shunted by 10 pF on 1 V to 300 V ranges
Amplifier Ac Output	1 V rms open circuit for full scale meter indication
Amplifier Output Impedance	600 ohms, 20 Hz to 4 MHz
Meter Response	less than 0.7 s after application of signal
Overload Recovery	less than 2 s for 80 dB overload
Accuracy 300 Uv To 300 V At 20 Hz	plus or minus (2% FS plus 2% reading)
Accuracy 300 Uv To 300 V At 40 Hz	plus or minus (1% FS plus 1% reading)
Accuracy 300 Uv To 300 V 100 Hz To 1 Mhz	plus or minus (0.5% FS plus 0.5% reading)
Accuracy 300 Uv To 300 V At 2 Mhz	plus or minus (1% FS plus 1% reading)
Accuracy 300 Uv To 300 V At 4 Mhz	plus or minus (2% FS plus 2% reading)
Accuracy 100 Uv Range At 30 Hz	plus or minus (2% FS plus 2% reading)
Accuracy 100 Uv Range At 60 Hz	plus or minus (1% FS plus 1% reading)
Line Power	115 or 230 V plus or minus 10%, 50 to 400 Hz class, 6 W class (1978 manual 6 W)
Temperature Range	0 to 55 C
Net Mass	6 lb (2.7 kg)
Shipping Mass	9 lb (4 kg)
Dimensions	6.5 inHby 5.125 inWby 11 in D (165.1 by 130.2 by 279.4 mm)
Sibling Model	400FL (accuracy as percent of reading on linear dB scale)

400F Specifications

PARAMETER	VALUE
HP Agilent 400F AC Voltmeter	Overview
Applications	Low-level AC voltage measurements from 100 uV, audio through 4 MHz, and use as a 600 ohm monitor amplifier.
Key Features	100 uV full-scale sensitivity
Technical Specifications	Model: 400F

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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Accuracy 300 Uv To 300 V At 20 Hz: plus or minus (2% FS plus 2% reading)	
Accuracy 300 Uv To 300 V At 40 Hz: plus or minus (1% FS plus 1% reading)	
Accuracy 300 Uv To 300 V 100 Hz To 1 Mhz: plus or minus (0.5% FS plus 0.5% reading)	
Accuracy 300 Uv To 300 V At 2 Mhz: plus or minus (1% FS plus 1% reading)	
Accuracy 300 Uv To 300 V At 4 Mhz: plus or minus (2% FS plus 2% reading)	
Specifications	
PARAMETER	VALUE
Accuracy 100 Uv Range At 30 Hz	plus or minus (2% FS plus 2% reading)
Accuracy 100 Uv Range At 60 Hz	plus or minus (1% FS plus 1% reading)
Line Power	115 or 230 V plus or minus 10%, 50 to 400 Hz class, 6 W class (1978 manual 6 W)
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Net Mass	6 lb (2.7 kg)
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Notes

From HP Model 400F/FL AC Voltmeter Table 1-1 (1966 operating and service manual). Accuracy specifications apply above one-tenth of full scale as noted in later reprints.

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.