

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 400FL

The HP 400FL is the linear-dB sibling of the 400F, covering 100 μ V to 300 V full scale from 20 Hz to 4 MHz. OEM 400F/FL Table 1-1 lists 400FL accuracy as percent of reading: plus or minus 4% at 20 Hz, plus or minus 2% at 40 Hz, plus or minus 1% from 100 Hz to 1 MHz, plus or minus 2% at 2 MHz, and plus or minus 4% at 4 MHz on 300 μ V to 300 V ranges. dB-oriented low-level AC measurements from 100 μ V through 4 MHz. Linear dB scale with logarithmic AC scale Voltage Range: 100 μ V to 300 V full scale, 14 ranges in 1 3 10 sequence Accuracy 100 μ V Range At 60 Hz: plus or minus 2% of reading Line Power: 115 or 230 V plus or minus 10%, 50 to 400 Hz class, 6 W class Dimensions: 6.5 inHby 5.125 inWby 11 inDSibling Model: 400F (percent FS plus percent reading accuracy) From HP Model 400F/FL AC Voltmeter Table 1-1 (400FL percent-of-reading column) and HP 400FL technical data summaries matching that table.



MODEL

**Agilent / Keysight
400FL**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

400FL

LISTING

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

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 400FL is an AC voltmeter and dB meter engineered for precision RMS voltage and decibel measurements across a wide frequency spectrum. Built around dual-scale metering - linear dB scale and logarithmic AC voltage scale - this instrument serves audio, RF, and general AC measurement applications where accurate voltage characterization is critical. The 400FL delivers voltage measurements from 100 μ V to 300 V full scale, with frequency response

spanning 20 Hz to 4 MHz. Accuracy varies by frequency: $\pm 1\%$ across the 100 Hz to 1 MHz band, with $\pm 2\%$ at both 40–100 Hz and 1–2 MHz ranges, and $\pm 4\%$ at the frequency extremes. The meter responds to absolute average signal values, calibrated in RMS volts. Input impedance is specified at 10 M Ω with input capacitance less than 30 pF (reducing to <15 pF on selected ranges). An AC amplifier output provides 1 V RMS open circuit at full-scale meter deflection, enabling integration with external measurement systems and recording equipment.

Technical Specifications

Measurement Type: AC voltage and decibels Voltage Range: 100 μ V to 300 V full scale Frequency Range: 20 Hz to 4 MHz Accuracy (% of reading): - 20–40 Hz: $\pm 4\%$ - 40–100 Hz: $\pm 2\%$ - 100 Hz–1 MHz: $\pm 1\%$ - 1–2 MHz: $\pm 2\%$ - 2–4 MHz: $\pm 4\%$ Input Impedance: 10 M Ω Input Capacitance: <30 pF (down to <15 pF on specific ranges) AC Amplifier Output: 1 V RMS open circuit at full-scale indication Calibration Basis: Absolute average value, calibrated in RMS volts

Key Features

- Dual-scale display combines linear dB and logarithmic AC voltage scales
- High input impedance minimizes loading effects on circuits under test
- RMS-calibrated measurement ensures accurate AC characterization across wide voltage range
- Dedicated AC amplifier output for external instrumentation interfacing

Typical Applications

- Audio frequency signal analysis and level measurement
- RF and IF signal monitoring
- AC voltage verification across component testing and troubleshooting workflows

Compatibility & Integration

The 400FL integrates within Agilent and Keysight instrument ecosystems, pairing effectively with signal generators, oscilloscopes, and spectrum analyzers for comprehensive AC measurement workflows.

400FL Characteristics / Specifications

PARAMETER	VALUE
Model	400FL
Instrument Type	AC voltmeter / dB meter
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 μ V To 300 V At 20 Hz	plus or minus 4% of reading
Accuracy 300 μ V To 300 V At 40 Hz	plus or minus 2% of reading
Accuracy 300 μ V To 300 V 100 Hz To 1 Mhz	plus or minus 1% of reading
Accuracy 300 μ V To 300 V At 2 Mhz	plus or minus 2% of reading
Accuracy 300 μ V To 300 V At 4 Mhz	plus or minus 4% of reading
Accuracy 100 μ V Range At 30 Hz	plus or minus 4% of reading
Accuracy 100 μ V Range At 60 Hz	plus or minus 2% of reading
Line Power	115 or 230 V plus or minus 10%, 50 to 400 Hz class, 6 W class
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 inDSibling Model: 400F (percent FS plus percent reading accuracy)

400FL Specifications

PARAMETER	VALUE
HP Agilent 400FL AC Voltmeter dB Meter	Overview
Applications	dB-oriented low-level AC measurements from 100 uV through 4 MHz.
Key Features	Linear dB scale with logarithmic AC scale
Same analog path as 400F	1 V rms amplifier output into 600 ohms
Technical Specifications	Model: 400FL
Notes	From HP Model 400F/FL AC Voltmeter Table 1-1 (400FL percent-of-reading column) and HP 400FL technical data summaries matching that table.

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	
Specifications	
PARAMETER	VALUE
Accuracy 100 Uv Range At 30 Hz	plus or minus 4% of reading
Accuracy 100 Uv Range At 60 Hz	plus or minus 2% of reading
Line Power	115 or 230 V plus or minus 10%, 50 to 400 Hz class, 6 W class
Temperature Range	0 to 55 C
Net Mass	6 lb (2.7 kg)
Shipping Mass	9 lb (4 kg)
Dimensions	6.5 in H by 5.125 in W by 11 in D
Sibling Model	400F (percent FS plus percent reading accuracy)
Specifications	
PARAMETER	VALUE
Model	400FL
Instrument Type	AC voltmeter / dB meter
Voltage Range	100 uV 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 uV 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 4% of reading	
Accuracy 300 Uv To 300 V At 40 Hz: plus or minus 2% of reading	
Accuracy 300 Uv To 300 V 100 Hz To 1 Mhz: plus or minus 1% of reading	
Accuracy 300 Uv To 300 V At 2 Mhz: plus or minus 2% of reading	
Accuracy 300 Uv To 300 V At 4 Mhz: plus or minus 4% of reading	
Specifications	

PARAMETER	VALUE
Accuracy 100 V Range At 30 Hz	plus or minus 4% of reading
Accuracy 100 V Range At 60 Hz	plus or minus 2% of reading
Line Power	115 or 230 V plus or minus 10%, 50 to 400 Hz class, 6 W class
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 inDSibling Model: 400F (percent FS plus percent reading accuracy)

Notes

From HP Model 400F/FL AC Voltmeter Table 1-1 (400FL percent-of-reading column) and HP 400FL technical data summaries matching that table.

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 15, 2026

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