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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 34300A

HP Agilent 34300A 30 A Current Shunt for 34401A The HP/Agilent 34300A is a precision current shunt accessory for 34401A-class DMMs. OEM 34401A accessory data list a 0.001 ohm shunt, 15 A continuous and 30 A for 15 seconds, used to extend DC/AC current measurement beyond the DMM's direct amps input. Measuring 15-30 A currents with a 34401A by converting current to millivolt drop. External amps path instead of DMM current jacks The HP/Agilent 34300A is a precision current shunt accessory for 34401A-class DMMs. OEM 34401A accessory data list a 0.001 ohm shunt, 15 A continuous and 30 A for 15 seconds, used to extend DC/AC current measurement beyond the DMM's direct amps input. Measuring 15-30 A currents with a 34401A by converting current to millivolt drop. External amps path instead of DMM current jacks Host Dmm: 34401A class digital multimeters



MODEL

**Agilent / Keysight
34300A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

34300A

LISTING

<https://aumictechlabs.com/products/34300a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 34300A is a high-voltage probe that extends the measurement range of compatible digital multimeters into the high-voltage domain. This 1000:1 voltage divider probe enables safe measurement of voltages up to 40 kV AC/DC peak at sea level, with a 2-meter cable and approximately 1 GΩ input resistance. The probe delivers ±2% division ratio accuracy under DC conditions with 10 MΩ termination and operates across a DC to 150 Hz bandwidth, with -3 dB

attenuation at 150 Hz for AC measurements. Input voltage derates 1% per 100 meters above sea level. The probe insulation is rated to 300 V maximum, and the 0.16 inch diameter probe tip facilitates contact with test points across various applications. Operating temperature range is 0°C to +50°C, with storage capability from -20°C to +70°C. Note: This product is obsolete.

Technical Specifications

Maximum Input Voltage: 40 kV AC/DC peak (at sea level)
Voltage Division Ratio: 1000:1
Division Ratio Accuracy: $\pm 2\%$ (DC, 1000:1, 10 M Ω termination)
Input Resistance: Approximately 1000 M Ω (1 G Ω)
Bandwidth: DC to 150 Hz (-3 dB at 150 Hz)
Probe Insulation Rating: 300 V maximum
Cable Length: 2 meters
Probe Tip Diameter: 0.16 in. (3.97 mm)
Altitude Derating: 1% per 100 meters above sea level

Key Features

- High-voltage measurement capability up to 40 kV AC/DC peak
- 1000:1 attenuation ratio reduces input signal to safe DMM levels
- Low input capacitance supports stable high-impedance measurements
- Compact probe tip enables access to confined test points
- DC and low-frequency AC measurement support

Typical Applications

- High-voltage circuit testing and troubleshooting
- Power distribution system measurements
- Industrial equipment diagnostics
- Safety-critical high-voltage verification

Compatibility & Integration

Designed for DMMs with 10 M Ω input resistance, including Agilent/Keysight 34401A, 3457A, 3458A, and compatible handheld DMMs.

34300A Characteristics / Specifications

PARAMETER	VALUE
Model	34300A
Instrument Type	Current shunt accessory
Resistance	0.001 ohm
Continuous Current	15 A
Peak Current 15 S	30 A
Host Dmm	34401A class digital multimeters
Measurement Method	voltage drop across the shunt
Manufacturer	HP Agilent Keysight
Mechanical Package	external current shunt
Use Case	extend DMM current range
Burden	1 mV per ampere at 0.001 ohm
Family	34401A accessories (34300A shunt, 34330A 30 A shunt adapter listings)
Dc Current	supported via millivolt measurement
Ac Current	supported via millivolt measurement of the drop
Duty Continuous	15 A
Duty Short	30 A for 15 seconds
Connection	in series with the load
Readout	DMM voltage function scaled by 0.001 ohm
Safety	observe shunt current-time rating
Calibration	shunt resistance on the accessory certificate
Related Adapter	34330A 30 A shunt adapter listed in the same 34401A accessory family
Scale Factor	1 mV per ampere

34300A Specifications

PARAMETER	VALUE
HP Agilent 34300A 30 A Current Shunt for 34401A	Overview
Applications	Measuring 15-30 A currents with a 34401A by converting current to a millivolt drop.
Key Features	0.001 ohm precision shunt
External amps path instead of DMM current jacks	Low burden for high current
Technical Specifications	Model: 34300A

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
Model	34300A
Instrument Type	Current shunt accessory
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Host Dmm	34401A class digital multimeters
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Dc Current	supported via millivolt measurement
Ac Current	supported via millivolt measurement of the drop
Duty Continuous	15 A
Duty Short	30 A for 15 seconds
Connection	in series with the load
Readout	DMM voltage function scaled by 0.001 ohm
Safety	observe shunt current-time rating
Calibration	shunt resistance on the accessory certificate
Related Adapter	34330A 30 A shunt adapter listed in the same 34401A accessory family
Scale Factor	1 mV per ampere
Notes	
From HP/Agilent 34401A accessory data for 34300A 30 A current shunt (0.001 ohm, 15 A continuous, 30 A for 15 s). Do not exceed the 15-second 30 A rating.	

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