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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 34330A

Keysight Agilent 34330A Precision Current Shunt 0.001 ohm 15 A continuous 30 A The Keysight 34330A is a precision 0.001 ohm current shunt in an epoxy-filled plastic case with 1 mV per A output. OEM operating instructions 34330-90001 rate 15 A continuous and 30 A for 15 minutes maximum, accuracy plus or minus 0.3 percent DC to 1 kHz and plus or minus 5 percent 1 kHz to 5 kHz, and 60 Vdc / 30 Vac rms maximum to ground. Extending bench DMM current measurement beyond the internal 3 A/10 A input using the voltage terminals. The Keysight 34330A is a precision 0.001 ohm current shunt in an epoxy-filled plastic case with 1 mV per A output. OEM operating instructions 34330-90001 rate 15 A continuous and 30 A for 15 minutes maximum, accuracy plus or minus 0.3 percent DC to 1 kHz and plus or minus 5 percent 1 kHz to 5 kHz, and 60 Vdc / 30 Vac rms maximum to ground. Extending bench DMM current measurement beyond the internal 3 A/10 A input using the voltage terminals. Banana-plug outputs into DMM voltage jacks Compatible with 34401A 34410A 34411A 3458A class DMMs



MODEL

**Agilent / Keysight
34330A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

34330A

LISTING

<https://aumictechlabs.com/products/34330a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight 34330A is a precision current shunt that extends the current measurement capabilities of digital multimeters by introducing a known, low-resistance element into the circuit.

Current is measured indirectly through the voltage drop across the shunt, which provides a linear output of 1 mV/A. The device is housed in an epoxy-encased plastic enclosure rated for Category II installation.

Technical Specifications

- Shunt Resistance: 0.001 Ω (1 m Ω)
- Continuous Current: 15 A
- Peak Current: 30 A (maximum 15 minutes duration)
- Voltage Output Sensitivity: 1 mV/A
- AC Voltage Limit: 30 Vrms
- DC Voltage Limit: 60 V
- Measurement Accuracy: $\pm 0.3\%$ (DC to 1 kHz); $\pm 5\%$ (1 kHz to 5 kHz at 10 A)
- Operating Temperature: 5 to 40 $^{\circ}\text{C}$
- Storage Temperature: -30 to 70 $^{\circ}\text{C}$
- Operating Humidity: 0 to 80% RH
- Maximum Altitude: 2000 meters
- Safety Class: Class 1 (with protective earth terminal)
- Pollution Degree: 2

Key Features

- Dual banana plugs interface with DMM voltage input terminals
- Binding posts for current source connection
- Low voltage burden minimizes circuit loading in digital applications
- Linear 1 mV per ampere sensitivity simplifies data interpretation
- Ground protection connector included to prevent measurement errors
- Low shunt resistance (1 m Ω) reduces power dissipation and circuit disruption

Typical Applications

The 34330A is used for precision current measurement in applications where the DMM's internal current measurement range is insufficient or where external shunt measurement is preferred. Its low resistance and high current capability support testing in power electronics, battery characterization, and precision current monitoring circuits.

Compatibility & Integration

The shunt integrates with Keysight digital multimeters including the 34401A, 34405A, 34410A, 34411A, L4411A, 3458A, 34460A, and 34461A. Connection is made through the DMM's standard voltage input terminals, not the high ampere inputs. The shunt's ground protection connector and dual-banana-plug design ensure proper isolation and measurement integrity.

34330A Characteristics / Specifications

PARAMETER	VALUE
Model	34330A
Instrument Type	Precision current shunt
Resistance	0.001 ohm
Voltage Sensitivity	1 mV perAContinuous Current: 15 A
Maximum Current	30 A for 15 minutes maximum
Accuracy Dc To 1 KHz	plus or minus 0.3 percent
Accuracy 1 KHz To 5 KHz	plus or minus 5 percent
Safety Limit Dc To Ground	60 Vdc maximum
Safety Limit Ac To Ground	30 Vac rms maximum
Operating Temperature	5 C to 40 C
Operating Humidity	0 to 80 percent RH
Storage Temperature	minus 30 C to 70 C
Operating Environment	indoor use only
Output Connectors	banana plugs
Input Connectors	binding posts
Housing	plastic case surrounded by epoxy
Literature	34330-90001 Edition 3
Compatible Dmms	34401A, 34405A, 34410A, 34411A, L4411A, 3458A
Example Reading At 15 A	15 mV
Dmm Input	voltage terminals not high-ampere terminals
Related Lower Current Shunt	34300A family listing
Humidity	0 to 80 percent RH

34330A Specifications

PARAMETER	VALUE
Applications	Extending bench DMM current measurement beyond the internal 3 A/10 A input using the voltage terminals.
Key Features	0.001 ohm precision resistor
Technical Specifications	Model: 34330A
Notes	From Keysight 34330A Current Shunt operating instructions 34330-90001. Do not remove the shunt with a current source connected.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 30 C to 70 C
Operating temperature	5 C to 40 C
Operating Temperature	5 C to 40 C
Humidity	0 to 80 percent RH
Operating Humidity	0 to 80 percent RH
Operating Environment	indoor use only
Output Connectors	banana plugs
Input Connectors	binding posts
Housing	plastic case surrounded by epoxy
Literature	34330-90001 Edition 3
Compatible Dmms	34401A, 34405A, 34410A, 34411A, L4411A, 3458A
Example Reading At 15 A	15 mV
Dmm Input	voltage terminals not high-ampere terminals
Related Lower Current Shunt	34300A family listing Notes From Keysight 34330A Current Shunt operating instructions 34330-90001. Do not remove the shunt withacurrent source connected.

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	
Technical Specifications	
PARAMETER	VALUE
Model	34330A
Instrument Type	Precision current shunt
Resistance	0.001 ohm
Voltage Sensitivity	1 mV per A
Continuous Current	15 A
Maximum Current	30 A for 15 minutes maximum
Accuracy Dc To 1 Khz	plus or minus 0.3 percent
Accuracy 1 Khz To 5 Khz	plus or minus 5 percent
Safety Limit Dc To Ground	60 Vdc maximum
Safety Limit Ac To Ground	30 Vac rms maximum
Operating Temperature	5 C to 40 C
Operating Humidity	0 to 80 percent RH
Storage Temperature	minus 30 C to 70 C
Operating Environment	indoor use only
Output Connectors	banana plugs
Input Connectors	binding posts
Housing	plastic case surrounded by epoxy
Literature	34330-90001 Edition 3
Compatible Dmms	34401A, 34405A, 34410A, 34411A, L4411A, 3458A
Example Reading At 15 A	15 mV
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Specifications	
PARAMETER	VALUE
Model	34330A

PARAMETER	VALUE
Instrument Type	Precision current shunt
Resistance	0.001 ohm
Voltage Sensitivity	1 mV perAContinuous Current: 15 A
Maximum Current	30 A for 15 minutes maximum
Accuracy Dc To 1 Khz	plus or minus 0.3 percent
Accuracy 1 Khz To 5 Khz	plus or minus 5 percent
Safety Limit Dc To Ground	60 Vdc maximum
Safety Limit Ac To Ground	30 Vac rms maximum
Operating Temperature	5 C to 40 C
Operating Humidity	0 to 80 percent RH
Storage Temperature	minus 30 C to 70 C
Operating Environment	indoor use only
Output Connectors	banana plugs
Input Connectors	binding posts
Housing	plastic case surrounded by epoxy
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Example Reading At 15 A	15 mV
Dmm Input	voltage terminals not high-ampere terminals
Related Lower Current Shunt	34300A family listing

Notes

From Keysight 34330A Current Shunt operating instructions 34330-90001. Do not remove the shunt with a current source connected.

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.