Instructions for Use

The Agilent 34330A Current Shunt is a precision 0.001Ω resistor housed in a plastic case surrounded by epoxy. Output is 1 mV per A of current passing through the shunt.

**WARNING**

Install the shunt in the multimeter voltage input terminals before use. Do not remove the shunt with a current source still connected, as there may be danger of shorting the banana plugs to ground. Observe the current and voltage limits listed under “Specifications.”

The following simplified diagram shows how the shunt is used:

![Diagram of shunt use](image)

Insert the shunt’s banana-plug outputs into the main voltage inputs on the multimeter (not the high ampere inputs). Then connect the current source to be measured to the shunt’s input terminals (binding posts). The multimeter will read the IR drop caused by the input current through the shunt.

The precision resistance of the shunt is 0.001Ω, so the voltage measured by the multimeter is equal to the current multiplied by 0.001Ω. Thus, the voltage reading sensitivity is 1 mV/A. For a 15 A current, the voltage reading is 15 mV. Select an appropriate voltage range on the multimeter. See your multimeter User’s Guide for further information.

Cleaning Instructions

Wipe with a soft cloth, moistened slightly with water, if needed.

Specifications

- **Operating Environment:** Indoor use only
- **Operating Temperature:** 5 to 40 °C
- **Operating Humidity:** 0 to 80% RH
- **Storage Temperature:** -30 to 70 °C
- **Input Current:**
  - 15 A (continuous)
  - 30 A (15 minutes, max)
- **Safety Limit, Max Voltage to Ground:**
  - 60 Vdc, max
  - 30 Vac (rms), max
- **Voltage Sensitivity:** 1 mV/A
- **Accuracy (DC - 1 kHz):** ±0.3%
- **Accuracy (1 kHz - 5 kHz):** ±5%

Assistance

Product maintenance agreements and other customer assistance agreements are available for Agilent Technologies products. For assistance, contact your nearest Agilent Technologies Sales and Service Office. Further information is available on the Agilent web site at www.agilent.com/find/assist.

Certification

Agilent Technologies certifies that this product met its published specifications at the time of shipment from the factory. The shunt is not subject to periodic calibration.

Warranty

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