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Data Sheet

August 13, 2026

FLUKE

Fluke A40 Current Shunt Kit

The Fluke A40/A40A series precision coaxial current shunts support AC/DC current transfer measurements with the 792A AC/DC Transfer Standard or 5790A AC Measurement Standard. The A40 set provides 12 values from 10 mA to 5 A; A40A adds 10 A and 20 A. Special cables are required. These legacy shunts are characterized for AC-DC difference rather than absolute DC resistance. Alias: A40; A40A; Fluke A40 Current Shunt Kit Series value count: 14 values from 10 mA to 20 A with A40A A40 shunt count: 12 shunts from 10 mA to 5 A Best 1 year AC DC specification: +/-0.02% from 5 Hz to 100 kHz



MODEL

Fluke A40

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

A40

LISTING

<https://aumictechlabs.com/products/a40-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Fluke A40 Current Shunt Kit is a precision resistor set designed to extend current measurement capabilities of multimeters and voltage-measuring instruments. These low-inductance coaxial shunts convert input current into measurable voltage drops across known resistances, enabling accurate AC and DC current measurements from milliampere to 100 ampere ranges. The kit supports both direct absolute current measurements and AC/DC current transfer applications in laboratory environments. Technical Specifications Current Range Available configurations span 1 mA to 100 A, depending on series selection. The A40B Series provides 14 individual shunts covering six decades in 1-2-5 sequence. The A40 Series ranges from 10 mA to 5 A, while the A40A Series extends coverage with 10 A and 20 A shunts. Frequency

Response Usable from DC to 100 kHz across standard configurations. Extended operation to 100 MHz is supported with compatible equipment such as the Model 540B. Electrical Performance Output voltage is nominally 0.8 V at rated current input. AC/DC difference specification is $\pm 0.05\%$. The A40-200MA shunt achieves $\pm 0.1\%$ accuracy with a temperature coefficient of 0.005% per $^{\circ}\text{C}$. A40B Series shunts exhibit stability better than $\pm 5.0 \mu\Omega/\Omega$ over one year, with typical angular accuracy better than $\pm 0.003^{\circ}$ at 1 kHz. Resistance values vary by rating: the 100 A shunt is 8 milliohms; the 10 mA shunt is 80 ohms; the 1 mA shunt is 800 ohms with integrated buffer amplifier. Physical Design Manganin alloy construction in low-inductance coaxial configuration ensures excellent self-heating power coefficient performance and minimal loading error.

Key Features Multiple series options (A40, A40A, A40B) for flexible range selection
Programmed loading error defaults in compatible Fluke instruments
Low temperature coefficient and exceptional long-term stability
Coaxial design minimizes inductance effects
Compatible with Fluke 5790B for automatic parameter programming

Typical Applications Direct measurement of absolute AC/DC currents in laboratory settings
AC/DC current transfer measurements
Extending measurement range of existing voltage-measuring equipment
Precision current characterization across wide frequency spans

Compatibility & Integration Loading error information can be pre-programmed into compatible Fluke instruments including the 5790B, with empirical calibration data documented in the A40B Instruction Manual. Output voltage ratings and AC/DC difference parameters integrate directly into automated measurement workflows.

Features & description

From manufacturer datasheet

Features

• Precision coaxial current shunts • Broad discrete current values in one kit family • Compatible with 792A and 5790A • AC-DC difference characterized across audio to RF bands • Optional 17025 accredited calibration reports

Applications

• AC/DC current transfer with 792A or 5790A • Precision current measurement from milliamps to 20 A • Standards-lab current transfer chains • Extension of AC measurement standards into current

A40 Characteristics / Specifications

PARAMETER	VALUE
Model	A40
Manufacturer	Fluke
Instrument Type	Current Shunt Kit
Alias	A40; A40A; Fluke A40 Current Shunt Kit
Series value count	14 values from 10 mA to 20 A with A40A
A40 shunt count	12 shunts from 10 mA to 5 A
A40A added ranges	10 A and 20 A
Current transfer span	2.5 mA to 20 A
Frequency range	5 Hz to 100 kHz
Best 1 year AC DC specification	+/-0.02% from 5 Hz to 100 kHz
Compatible instrument 792A	yes
Compatible instrument 5790A	yes
Measurement type	AC/DC current transfer
Special cables required	yes
Calibration documentation	statement of calibration practices included
Shunt 010 mA	0.01 A
Shunt 020 mA	0.02 A
Shunt 030 mA	0.03 A
Shunt 050 mA	0.05 A
Shunt 100 mA	0.1 A
Shunt 200 mA	0.2 A
Shunt 300 mA	0.3 A
Shunt 500 mA	0.5 A
Shunt 1 A	1 A
Shunt 2 A	2 A

PARAMETER	VALUE
Shunt 3 A	3 A
Shunt 5 A	5 A
Shunt 10 A A40A	10 A
Shunt 20 A A40A	20 A
Successor product family	A40B precision DC and AC current shunts
DC resistance absolute rating	not specified like A40B Notes Specs from Fluke A40/A40A product page and reseller model lists. Confirm whether the listing includes A40A high-current shunts and matching cables.

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
Model	A40
Manufacturer	Fluke
Instrument Type	Current Shunt Kit
Alias	A40; A40A; Fluke A40 Current Shunt Kit
Series value count	14 values from 10 mA to 20 A with A40A
A40 shunt count	12 shunts from 10 mA to 5 A
A40A added ranges	10 A and 20 A
Current transfer span	2.5 mA to 20 A
Frequency range	5 Hz to 100 kHz
Best 1 year AC DC specification	+/-0.02% from 5 Hz to 100 kHz
Compatible instrument 792A	yes
Compatible instrument 5790A	yes
Measurement type	AC/DC current transfer
Special cables required	yes
Calibration documentation	statement of calibration practices included
Optional accredited cal: ISO/IEC 17025	
Specifications	
PARAMETER	VALUE
Shunt 010 mA	0.01 A
Shunt 020 mA	0.02 A
Shunt 030 mA	0.03 A
Shunt 050 mA	0.05 A
Shunt 100 mA	0.1 A
Shunt 200 mA	0.2 A
Shunt 300 mA	0.3 A

PARAMETER	VALUE
Shunt 500 mA	0.5 A
Shunt 1 A	1 A
Shunt 2 A	2 A
Shunt 3 A	3 A
Shunt 5 A	5 A
Shunt 10 A A40A	10 A
Shunt 20 A A40A	20 A
Successor product family	A40B precision DC and AC current shunts
DC resistance absolute rating	not specified like A40B

Notes
Specs from Fluke A40/A40A product page and reseller model lists. Confirm whether the listing includes A40A high-current shunts and matching cables.

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.