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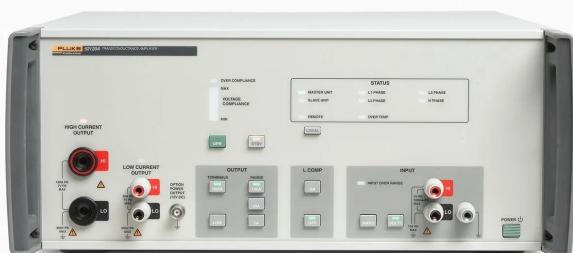
Data Sheet

August 13, 2026

FLUKE

Fluke 52120A Transconductance Amplifier

The Fluke Calibration 52120A transconductance amplifier extends calibrator current capability to 100 A DC and 120 A AC to 10 kHz. It is driven by 55xxA, 57xxA, 610x, 5080A, 9100, and other sources capable of 2 V or 200 mA drive. Closed-loop operation with 6105A/6100B improves AC accuracy, and accessory coils support 3000 A or 6000 A clamp-meter workloads. Multiple amplifiers can operate in parallel for higher single-phase currents. AC accuracy closed-loop with 6105A: to 140 ppm Parallel operation: up to 360 A with 3 units single-phase class Line power: 100-240 V; 47-63 Hz; less than 1500 VA Specs from Fluke 52120A product page. Confirm coil kit, closed-loop cabling, and parallel-operation configuration separately.



MODEL

Fluke 52120A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

52120A

LISTING

<https://aumictechlabs.com/products/52120a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Fluke 52120A Transconductance Amplifier is a precision source specifically engineered for the calibration of current measuring equipment. It has highly accurate and stable AC and DC currents up to 120 A, characterized by exceptional linearity and minimal distortion. This amplifier is ideally suited for calibrating a wide range of devices, including ammeters, current transformers, and diverse current-sensing instruments. Its solid design and specifications ensure reliable and traceable calibrations, making it an essential tool for calibration laboratories and metrology professionals.

Features & description

From manufacturer datasheet

Features

• DC to 100 A / AC to 120 A output • Closed-loop mode with 6105A/6100B • Accessory coils to 3000 A and 6000 A • Parallel operation of multiple amplifiers • GPIB remote operation • Inductive load drive capability

Applications

• Extending multi-product calibrator current to 100/120 A • Clamp meter calibration with 25-turn / 50-turn coils • Power and energy meter high-current workloads • Parallel operation for higher single-phase current

52120A Characteristics / Specifications

PARAMETER	VALUE
Model	52120A
Manufacturer	Fluke Calibration
Instrument Type	Transconductance Amplifier
Alias	52120A; Fluke 52120A
Output ranges	2 A; 20 A; 120 A AC / 100 A DC
Input current ranges	200 mA; 200 mA; 120 mA AC / 100 mA DC
Current gain	10; 100; 1000
Input voltage ranges	2 V; 2 V; 1.2 V AC / 1.0 V DC
Transconductance	1; 10; 100 siemens
Frequency	DC to 10 kHz
Compliance voltage	4.5 Vrms; 6.4 Vpeak
Inductive drive	1 mH load
Output isolation to earth	600 Vrms / 850 Vpeak DC to 850 Hz
DC accuracy standalone	to 160 ppm
AC accuracy standalone	to 350 ppm
Phase angle accuracy	0.006 deg
Parallel operation	up to 360 A with 3 units single-phase class
Line power	100-240 V; 47-63 Hz; less than 1500 VA
Dimensions with feet	192 x 432 x 645 mm
Weight	25 kg; 54 lb
Operating temperature	5 to 35 degC Notes Specs from Fluke 52120A product page. Confirm coil kit, closed-loop cabling, and parallel-operation configuration separately.
Output isolation	to earth: 600 Vrms / 850 Vpeak DC to 850 Hz

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	5 to 35 degC
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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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AC accuracy closed-loop with 6105A: to 140 ppm	
Specifications	
PARAMETER	VALUE
DC accuracy standalone	to 160 ppm
AC accuracy standalone	to 350 ppm
Phase angle accuracy	0.006 deg
Coil option 25-turn: 3000 A class	
Coil option 50-turn: 6000 A class	
Specifications	
PARAMETER	VALUE
Parallel operation	up to 360 A with 3 units single-phase class
Line power	100-240 V; 47-63 Hz; less than 1500 VA

PARAMETER	VALUE
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Notes
Specs from Fluke 52120A product page. Confirm coil kit, closed-loop cabling, and parallel-operation configuration separately.

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.