

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

FLUKE

Fluke Y5020 AC / DC Shunt. 0-20A

The Fluke Y5020 is a precision four-terminal 0.01 ohm current shunt for calibrating AC/DC current sources from 0 to 20 A, DC to 5 kHz. It is housed in a forced-air-cooled PTI portable case compatible with other Fluke PTI instruments and is commonly used to verify 5220A-class transconductance amplifiers and current calibrators. Stability of calibration value: 30 ppm per 6 months class Cooling fan power: 115 V or 230 V +/-10%; about 11 W Connection: Four-terminal (2 current input, 2 voltage sense) Specs from Fluke Y5020 service/specification literature. Confirm engraved shunt value and calibration sticker on the unit.



MODEL

Fluke Y5020

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

Y5020

LISTING

<https://aumictechlabs.com/products/y5020-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Fluke Y5020 is a precision four-terminal AC/DC current shunt rated for measurements up to 20 A DC or RMS AC across a frequency range of DC to 5 kHz. It delivers a proportional voltage output for direct integration with calibration systems and measurement instruments. The unit features forced-air cooling via an integrated rear-panel fan, enabling continuous operation without thermal drift. The shunt mounts in a stackable PTI (Portable Test Instrument) case, forming integrated test systems with compatible Fluke instruments.

Technical Specifications

Maximum Current Rating: 20 A DC or RMS AC Frequency Range: DC to 5 kHz Nominal Resistance: 0.01 Ω

Accuracy (DC): $\pm 1\%$ Accuracy (DC to 1 kHz): $\pm 0.01\%$ Accuracy (1 kHz to 5 kHz): $\pm 0.01\%$ DC Current Uncertainty: ± 100 ppm (referenced to certified absolute value) AC Current Uncertainty: $\pm$

(150 ppm + 120 ppm × frequency in kHz) relative to DC specification Resistance Stability: Less than 20 ppm change in six months Burden Voltage: Less than 250 mV DC at 20 A Temperature Coefficient: Less than 20 ppm/°C (0°C to 18°C and 28°C to 50°C) Power Coefficient: Less than 12 ppm per watt at 20 A Protection Class: Class 3 Key Features Four-terminal configuration minimizes lead resistance effects Forced-air cooling maintains accuracy during extended operation Dual binding posts for current input and voltage sense output Front-panel power switch controls fan operation Compact form factor: 127 mm H × 205 mm W × 36 mm DElectrical Specifications Fan Input Power: 115 V AC or 230 V AC, ±10%, 50–60 Hz, 11 W maximum Input Protection: 1/8 A, 250 V AGC fuse Compatibility & Integration Designed for stacking with other Fluke PTI instruments to build modular, portable calibration and measurement systems.

Features & description

From manufacturer datasheet

Features

- Four-terminal force/sense connections
- Forced-air cooling for stability at full current
- Low burden voltage at 20 A
- PTI case stacking compatibility

Applications

- Verification of AC/DC current calibrators to 20 A
- Transfer measurements with four-terminal sense
- Portable PTI stack current measurement setups

Y5020 Characteristics / Specifications

PARAMETER	VALUE
Model	Y5020
Manufacturer	Fluke
Instrument Type	AC/DC Current Shunt
Alias	Y5020; Fluke Y5020
Nominal resistance	0.01 ohm
Resistance tolerance	+/-1%
Maximum current	20 A dc or rms ac
Frequency range	DC to 5 kHz
Burden voltage at 20 A	<0.25 V (typically <=0.2 V class)
Calibration value accuracy class (DC)	+/-0.01%
Calibration accuracy 1 kHz	+/-0.01% class
Stability of calibration value	30 ppm per 6 months class
Temperature coefficient	<=0.001%/degC
Power coefficient	<=0.005% at 20 A
Cooling fan power	115 V or 230 V +/-10%; about 11 W
Connection	Four-terminal (2 current input, 2 voltage sense) Notes Specs from Fluke Y5020 service/specification literature. Confirm engraved shunt value and calibration sticker on the unit.

Y5020 Specifications

PARAMETER	VALUE
Fluke Y5020 AC/DC Current Shunt	Overview
Applications	- Verification of AC/DC current calibrators to 20 A
Key Features	- Four-terminal force/sense connections
Technical Specifications	Model: Y5020
Notes	Specs from Fluke Y5020 service/specification literature. Confirm engraved shunt value and calibration sticker on the unit.

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

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Specifications

PARAMETER	VALUE
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Maximum current	20 A dc or rms ac
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Burden voltage at 20 A	<0.25 V (typically <=0.2 V class)
Calibration value accuracy class (DC)	+/-0.01%
Calibration accuracy 1 kHz	+/-0.01% class

Calibration accuracy 1-5 kHz: +/-0.025% to +/-0.035% class

Specifications

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Power coefficient	<=0.005% at 20 A
Cooling fan power	115 V or 230 V +/-10%; about 11 W
Connection	Four-terminal (2 current input, 2 voltage sense)

Notes

Specs from Fluke Y5020 service/specification literature. Confirm engraved shunt value and calibration sticker on the unit.

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.