

# 5220A Transconductance Amplifier

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The 5220A Transconductance Amplifier lets you calibrate alternating or direct current meters and shunts and the current functions of digital multimeters that measure up to 20A. A known input voltage of 1 to 20 volts produces a known output current of 1 to 20A.

The 5220A is designed for those applications where 20A ac or dc current is required; for example, calibration of the upper ranges of digital multimeters, or used with a current coil to calibrate clamps and clamp meters.

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# 5220A Transconductance Amplifier Features

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- [Built-in protection](#)
- [Remote operation](#)
- [May be programmed through a 5700A, 5720A or 5100B](#)
- 20 amps output dc or rms ac
- 0.025% basic dc accuracy
- Over-voltage and over-current protection
- Over-temperature protection

## Built-in protection

Protection is designed in to eliminate problems caused by excessive inputs, open inputs, and over compliance. Indicators on the front panel tell the user about any of these conditions. Automatic shut down occurs should the internal temperature rise excessively.

## Remote operation

Drive voltage to the 5220A may be introduced through the front panel or the rear panel. The connector on the rear, however, allows the 5220A to become an extension to the current range of a 5700A, 5720A or 5100B Series Calibrator.

The two instruments operate as one integrated calibration system with all the advantages of single control-point calibration; automatic error calculation, entry limit protection, etc.

A 5100B Series Calibrator requires a Y5000 Interface/Buffer to control a 5220A. A single Y5000 Interface Buffer may also be used to control a 5205A Power Amplifier.

## May be programmed through a 5700A, 5720A or 5100B

The 5220A is designed to be controlled by a Fluke 5700A/5720A or 5100B Series calibrator but may be driven by another voltage source such as the

**Fluke 5200A or 5500A. When used with a 5100B or 5700A/5720A the current range of those instruments is extended by a factor of 10 to 1.**

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# 5220A Transconductance Amplifier Specifications

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The 5220A is not CE certified and therefore not available in the European Community.

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Specifications	
DC Current	Range: 0 to 20A Best 6 Month Specification: 0.025% of output
AC Current	Range: 0 to 20A Best 6 Month Specification: 0.05% of output

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# 5220A Transconductance Amplifier Models, Options & Accessories

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Model Name	Product Description
5220A *	Transconductance Amplifier Includes one-year product warranty, line cord, instruction manual, certificate of calibration practices

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## Available Accessories and Options

Model Name	Accessory or Option Description
M00-270-610	20" Slides for Rack Mount Kit
M00-280-610	24" Slides for Rack Mount Kit
M07-205-600	7: Rack Mount Kit
Y5000 *	Interface Buffer**
Y5002 *	Cable (Y5000 to 5220A)**
Y5020 *	Current Shunt
Y5702	Cable (5700A to 5220A)

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\*\* Required when controlled from 5100B or 5101B

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