

Fluke 709 Precision mA Loop Calibrator

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Manufacturer [Fluke](#)

Description

Product overview: Fluke 709 Precision mA Loop Calibrator

The Fluke 709 mA loop calibrator is designed to reduce the time it takes to measure or source voltage or current and power up a loop and still produce high-quality results. The Fluke 709 is built around a user friendly interface with a quick-set rotary encoder knob and best in class accuracy at 0.01% of reading. It features a protective holster that fits easily in a technician's hand and a large backlit display that is easy to read, even in dark, cramped work areas. So it's a great choice anywhere you need a compact, rich featured precision loop calibrator.

Other useful features:

- Provides resolution of 1 µA on mA ranges and 1 mV on voltage ranges
- Features a compact rugged design and runs on 6 standard AAA batteries
- Provides Auto Shutdown to conserve battery life (adjustable up to 30 minutes)
- Offers variable step and ramp time in seconds
- Provides adjustable span selection (0 to 20 mA or 4 to 20 mA)
- Includes valve test functionality (simulates defined mA values with % keys)

Key features

- mA precision loop calibrator with best-in-class accuracy at 0.01% reading
- Provides intuitive user interface with quick-set rotary encoder knob for fast setup
- Includes built in selectable 250 Ω resistor for HART communication
- Features 24 V DC loop power with mA Measure Mode (-25% to 125%)
- Requires only simple two wire connection for all measurements

Specifications: Fluke 709 Precision mA Loop Calibrator

Detailed Specifications	
Functions	mA source, mA simulate, mA read, mA read/loop power, and volts read.

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Ranges	mA (0 to 24 mA) and Volts (0 to 30 V DC)
Resolution	1 μ A on mA ranges and 1 mV on voltage range
Accuracy	0.01% $\pm$ 2 counts, all ranges (@23° $\pm$ 5°C)
Operating temperature range	-10°C to 55°C (14°F to 131°F)
Humidity range	10 to 95% non-condensing
Stability	20 ppm of F.S. /°C from -10°C to 18°C and 28°C to 55°C
Display	128 x 64 pixels, LCD graphic w/backlight, .34 high digits
Power	6 AAA alkaline
Battery life	40 hours typical
Loop compliance voltage	24 V DC @ 20 mA
Over-voltage protection	240 V AC
Overload current protection	28 mA DC
EMC	EN61326 Annex A (Portable Instruments)
Dimensions (L x W x D)	15 x 9 x 3 cm (6 x 3.6 x 1.3 in)
Weight	0.3 kg (9.5 oz)
Included accessories	NIST traceable calibration certificate with data, batteries, test leads, and manual