

## Fluke 705 Loop Calibrator

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Manufacturer [Fluke](#)

Description

### Product overview: Fluke 705 Loop Calibrator

#### Fluke 705 loop calibrator provides a cost-effective, integrated solution for calibrating milliamp loops

The Fluke 705 is a cost-effective, integrated solution for calibration, repair and maintenance of milliamp loops. It features a large display and simple, pushbutton interface for ease of use. Plus, it offers the other capabilities you need most to calibrate mA loops including:

- mA sourcing, simulation and measurement
- 0.02% accuracy and 0.001 mA resolution
- Simultaneous mA and % of span display
- Selectable step or ramp outputs
- 24 V Loop supply with mA measure
- 0-28 VDC measurement to check Loop Voltage
- Easy battery exchange without opening the case
- Includes "span check" for fast confirmation of zero and span.
- Provides selectable slow ramp, fast ramp, and step to provide smooth outputs for valve slewing and loop functional tests.
- Includes a 24 volt internal loop supply, so you can power and read a transmitter at the same time without a DMM.
- Runs on a single 9 V battery that is easily changed without breaking the calibration seal
- Offers 0 - 20 mA or 4 - 20 mA default start up modes
- Comes with a protective yellow holster with test lead storage and a three year warranty

### Key features

- Powerful loop calibrator that provides a very cost effective, integrated solution for calibration, repair, and maintenance of milliamp loops
- Provides simultaneous mA and % readout for quick, easy interpretation of readings.
- Delivers mA accuracy of 0.02%
- Features push button 25% steps for fast, easy linearity checks

### Specifications: Fluke 705 Loop Calibrator

## Process Meter: Fluke 705 Loop Calibrator

Specifications		
Current measurement	<b>Range</b>	0 to 24 mA
	Resolution	0.001 mA
	Accuracy	0.02% Rdg + 2 LSD
Current sourcing	<b>Range</b>	0 to 20 mA or 4 to 20 mA
	Accuracy	0.025% Rdg + 2 LSD
	Drive capability	1000 ? @ 24 mA
Current simulation	<b>Range</b>	0 to 20 mA or 4 to 20 mA
	Accuracy	0.025% Rdg + 2 LSD
	Ext. loop voltage requirement	12-30 V
Loop power	While measuring mA, 24 V	
Voltage measurement	<b>Range</b>	0 to 28 V DC
	Resolution	1 mV
	Accuracy	0.025% Rdg + 2 LSD
Environmental Specifications		
Operating temperature	-10°C to 55°C	
Storage temperature	-40°C to 60°C	
Humidity (without condensation)	0 to 90% (0°C to 35°C); 0 to 70% (35°C to 55°C)	
Temperature coefficient	-10°C to 18°C, 28°C to 55°C, ±.005% of range per°C	
Safety Specifications		
Safety	CSA C22.2 No. 1010.1:1992	
EMC	EN50082-1:1992 and EN55022:1994 Class B	
Maximum voltage	30 V	
Mechanical and General Specifications		
Size	152 x 70 x 41 mm	
Weight	340 g	
Batteries	One 9 V battery	
Warranty	Three years	
Shock and vibration	per MIL-T-28800 for a Class 2 Instrument	
Display current and % of span	Yes	
Auto step, auto ramp	Yes	
Span check	Yes	