

FLUKE®

707 Loop Calibrator

Click here to calibrate

Cal Power

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Technical Data



The fast, one-handed tool for loop checks

This feature-rich solution combines the best features of a push-button and knob-base loop calibrator and offers:

- Large display and simple, quick-click interface for easy one-handed operation.
- Simultaneous mA and % readout for quick, easy, interpretation of readings.
- mA accuracy of 0.015%, superior to other loop calibrators in this price range.
- 1 μ A resolution for mA source, simulate and measure.
- Push button 25% steps for fast, easy linearity checks.
- 0-100% "span check" for fast confirmation of zero and span.
- Selectable slow ramp, fast ramp, and step ramp to provide smooth outputs for valve slewing and loop functional tests.
- 24 volt internal loop supply, so you can power and read a transmitter at the same time without carrying a DMM.
- Measures V dc to 28 V.
- Single 9 V battery that is easily changed.
- 0-20 mA or 4-20 mA default start up modes.
- Innovative output adjustment dial with 1 μ A and 100 μ A resolution.
- HART™ mode connects 250 Ω resistor in series with 24 V loop for compatibility with HART communicators.

Specifications

Summary Specifications (18° to 28°C, one year)

| Function | Range | Resolution | Accuracy |
|--------------------------|------------|------------|--------------------------------------|
| Voltage measure | 0 to 28 V | .001 V | ± (.015% R _{dg} + 2 counts) |
| mA measure | 0 to 24 mA | .001 mA | .015% R _{dg} + 2 LSD |
| mA source ¹ | 0 to 24 mA | .001 mA | .015% R _{dg} + 2 LSD |
| mA simulate ² | 0 to 24 mA | .001 mA | .015% R _{dg} + 2 LSD |
| Loop supply | 24 V dc | n/a | = 24 V |

Temperature Coefficient, -10 to 18 °C, 28 to 55 °C, ± .005% of range per °C;

¹ Max load, 1200 Ohms; 950 Ohms at 20 mA in HART mode

² Max applied voltage for simulation, 30 V

Operating Modes

| |
|---|
| Measure current |
| Measure current/Loop power |
| Measure voltage |
| Simulate current; manual adjust; scroll up/down |
| Simulate current; 25% steps; 0 - 100% steps |
| Simulate current; Auto ramp (smooth/step) |
| Source current; manual adjust; scroll up/down |
| Source current; 25% steps; 0 - 100% steps |
| Source current; Auto ramp (smooth/step) |

General Specifications

| | |
|------------------------------|---|
| Maximum voltage | 30 volts |
| Non-operating temperature | -30 to 60 °C |
| Operating temperature | -10 to 55 °C |
| Relative humidity | 0 to 90% (0 to 35 °C); 0 to 70% (35 to 55 °C) |
| Operating altitude | 3,000 meters max. |
| Shock and vibration | Per MIL-T-28800 for a Class 2 Instrument |
| Safety | CSA C22.2 No. 1010.1: 1992 |
| EMC | EN50082-1:1992 and EN55022:1994 Class B |
| Size/weight | 152 mm L x 70 mm W x 41 mm D (224 g) |
| Size/weight with C10 Holster | 164 mm L x 75 mm W x 47 mm D (350 g) |
| Battery | One 9 V alkaline |
| Battery life | 18 hours typical, at 12 mA |
| Warranty | Three years |

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Pub_ID: 10438-eng
Rev. 01

Ordering Information

Fluke-707 Loop Calibrator
Each calibrator includes: TL75 Test Leads and AC70 Alligator Test Clips, C10 Holster, Instruction sheets (English, French, German, Spanish, Italian, Dutch, Norwegian, Danish, Swedish, Finnish, Portuguese, Korean, Chinese, Japanese), CE and CSA markings.