

Fluke 707 Loop Calibrator with Quick Click Knob

Highlights

The fastest, one-handed tool for loop checks.

The Fluke 707 [Loop Calibrator](#) is a high performance solution for calibration, repair and maintenance of current loops. The new "Quick Click" knob making it extremely fast and easy to use. It features:

- One handed user interface with "Quick Click" detented knob
- mA sourcing, simulation and measurement
- 0.015% accuracy and 0.001 mA resolution
- Simultaneous mA and % of span display
- Selectable step or ramp outputs
- 24 V Loop supply with mA measure, including 250Ω HART resistor
- 0-28 VDC measurement to check Loop Voltage
- Easy battery exchange without opening the case
- Compact case with separate protective holster
- Three year warranty

Description

The fast, one-handed tool for loop checks. Just click to calibrate.

This feature-rich solution combines the best features 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 µA 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 9V battery that is easily changed without braking calibration seal
- 0 - 20 mA or 4 - 20 mA default start up modes.
- Innovative output adjustment dial with 1 µA and 100 resolution.
- HART™ mode connects 250 Ω resistor in series with 24 V loop for compatibility with HART communicators.

Safety conformance

CSA C22.2 No. 1010.1:1992

Specifications

Specifications	
Current Measurement	Range: 0 to 24 mA Resolution: 0.001 mA Accuracy: 0.015% R _{dg} + 2 LSD
	Range: 0 to 20 mA or 4 to 20 mA

Current Sourcing	Accuracy: 0.015% Rdg + 2 LSD Drive Capability: 1200 Ω ; 950 Ω at 20 mA in HART mode
Current Simulation	Range: 0 to 20 mA or 4 to 20 mA Accuracy: 0.015% Rdg + 2 LSD Ext. loop voltage requirement: 12-30 V
Loop Power	While measuring mA, 24 V
Voltage measurement	Range: 0 to 28 V DC Resolution: 1 mV Accuracy: 0.015% Rdg + 2 LSD

Environmental Specifications	
Operating Temperature	-10°C to 55°C
Storage Temperature	-30°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, \pm .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	30V

Mechanical & General Specifications	
Size	152 x 70 x 41 mm
Weight	224 g (340 g including holster)
Batteries	One 9V battery Alkaline
Warranty	Three years
Shock & Vibration	per MIL-T-28800 for a Class 2 Instrument
Display current and % of span	Yes
Auto step, auto ramp	Yes
Span Check	Yes

Models and Accessories

Model Name	Description
Fluke 707	Loop Calibrator with Quick Click Knob

Accessories common to all models:

Accessory	Description
G3P-Group2	<ul style="list-style-type: none"> GOLD CarePlan. Models covered: 51-2, 52-2, 53-2, 54-2, 192C, 381, 705, 707, 712, 714, 715, 717, 718, 719, 744, 787, 789, 1550C, 1577, and 1587. Extends warranty from three to five years and includes five annual NIST traceable calibrations with data.

S3P-Group2	<ul style="list-style-type: none"> • SILVER CarePlan. • Models covered: 51-2, 52-2, 53-2, 54-2, 192C, 381, 705, 707, 712, 714, 715, 717, 718, 719, 744, 787, 789, 1550C, 1577, and 1587. • Extends warranty from three to five years.
AC220	SureGrip™ Alligator Clips
AC280	SureGrip™ Hook Clips
AC283	SureGrip™ Pincer Clips
AC285	SureGrip™ Alligator Clips
AC175	Alligator Clip Set
AC87	Heavy Duty Bus Bar Clip Set
AC89	Heavy Duty Insulation Piercing Test Clip
BP980	Double Banana Plug Kit
TL910	Electronic Test Probes
TP 38	Slim Reach Test Probe Set
TP1	Slim Reach Test Probes
TP2	Slim Reach Test Probes
TP220	SureGrip™ Industrial Test Probes
TP4	Slim Reach Test Probes
TP74	Lantern Tip Test Probes
TP80	Electronic Test Probes
TP912	Replacement Tips for TL910
TP920	Test Probe Adapter Set
C100	Universal Carrying Case

C12A	Meter Case
C195	Case
C25	Large Soft Case for DMMs
C800	Meter and Accessory Case
TL80A	Basic Electronic Test Lead Set
80T-150UA	Universal Temperature Probe
80TK	Thermocouple Module
PV350	Pressure Vacuum Module
H900	Test Lead Holder
TL220	SureGrip™ Industrial Test Lead Set
TL221	SureGrip™ Test Lead Extension Set
TL222	SureGrip™ Silicone Insulated Test Leads
TL223	SureGrip™ Electrical Test Lead Set
TL224	SureGrip™ Insulated Test Leads
TL238	SureGrip™ Test Lead Set for High Energy Environments
TL27	Heavy Duty Test Lead Set
TL40	Retractable Tip Test Lead Set
TL71	Test Lead Set
TL75	Hard Point™ Test Lead Set
TL76	2mm/4mm Test Lead Set
TL81A	Deluxe Electronic Test Lead Kit

TL930	Patch Cords (60 cm)
TL932	Patch Cords (90 cm)
TL935	Patch Cords (60, 90, 120 cm)
TL940	Mini-Hook Test Leads
TL950	Mini-Pincer Test Leads
TL970	Hook and Pincer Set



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