

Fluke 715 mA Loop Calibrators

Technical Data

Fluke 715 Volt/mA Calibrator

Volt Milliamp Calibrator to troubleshoot process loops

The Fluke 715 Volt/mA Calibrator delivers outstanding performance, durability and reliability. Offered in the rugged Fluke 80 Series DMM package, the calibrator is compact, lightweight and easy to carry. With a push button interface similar to the multifunction Fluke 740 Series Documenting Process Calibrators, the 715 is easy to use. It is EMI tolerant, dust/splash resistant and features a removable battery door for quick battery changes. It features:

- Measure loop current (0 mA to 20 mA, 4 mA to 20 mA) signals with 0.01 % accuracy and 0.001 mA resolution
- Source precision voltage signals up to 20 V with 0.01 % accuracy
- Measure voltage output process signals from PLCs, transmitters
- Source or simulate 24 mA loop current
- 24 V loop supply with simultaneous current measurement

Fluke 707 Loop Calibrator

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 "Quick Click" knob makes 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 250 Ω HART resistor
- 0 V dc to 28 V dc measurement to check Loop Voltage
- Removable battery door for quick battery replacement
- Compact case with protective holster
- Three year warranty

Fluke 705 Loop Calibrator

Low cost calibration muscle

The Fluke 705 Loop Calibrator is a cost-effective, integrated solution for calibration, repair and maintenance of current loops. It features:

- 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 V dc to 28 V dc measurement to check Loop Voltage
- Removable battery door for quick battery replacement
- Compact case with protective holster
- Three-year warranty



General Specifications:

Maximum voltage: 30 volts: Non-operating temperature: -4 °C to 60 °C

Operating temperature: -10 °C to 55 °C

Relative humidity: 95 % (10 °C to 30 °C); 75 % (30 °C to 40 °C); 45 % (40 °C to 50 °C); 35 % (50 °C to 55 °C)

Operating altitude: 3,000 m max

Shock: 1 m drop test

Vibration: Random, 2 g, 5 Hz to 500 Hz

Safety: CSA C22.2 No. 1010.1:1992

EMC: EN50082-1:1992 and EN55022:1994 Class B

Power: 9 V battery ANSI/NEDA 1604A or IEC 6LR619V alkaline; two batteries in 718

Warranty: Three-years

Functional Specifications:	Fluke 705 and 707	Fluke 715
Voltage measurement		
Range	0 V to 28 V	0 mV to 200 mV / 0 V to 25 V
Resolution	1 mV	10 µV / 1 mV
Accuracy	705: 0.025 % Rdg + 1 counts 707, 707Ex: 0.015 % Rdg + 2 counts	0.01 % Rdg + 2 counts
Current measurement		
Range	0 mA to 24 mA	0 mA to 24 mA
Resolution	0.001 mA	0.001 mA
Accuracy	705: 0.02 % Rdg + 2 counts 707, 707Ex: 0.015 % Rdg + 2 counts	0.01 % + 2 counts
Current sourcing		
Range	0 mA to 20 mA or 4 mA to 20 mA	0 mA to 20 mA or 4 mA to 20 mA
Accuracy	705: 0.02 % Rdg + 2 counts 707, 707Ex: 0.015 % Rdg + 2 counts	0.01 % Rdg + 2 counts
Drive capability	705: 1000 Ω @ 24 mA 707: 1200 Ω @ 24 mA 707Ex: 700 Ω @ 20 mA	1000 Ω @ 24 mA
Loop power while measuring mA	24 V	24 V
Voltage sourcing	n/a	0 mV to 200 mV or 0 V to 20 V
Display current and % of span	Yes	mA or %
Auto step, auto ramp	Yes	Yes
Span Check	Yes	Yes
Battery life	18 hours typical, at 12 mA	18 hours typical, at 12 mA

Fluke. Keeping your world
up and running.