

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.*

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