

705/707/715 Loop Calibrators

4-20 mA, source, measure, simulate



705 Loop Calibrator

- Simultaneous mA and %
- mA accuracy of 0.02
- Measure, source and simulate mA
- Push button 25% steps for fast, easy linearity checks.
- “Span Check” for fast confirmation of zero and span.
- Selectable slow ramp, fast ramp, and step function .
- 24 volt internal loop supply.
- 0 - 20 mA or 4 - 20 mA default start up modes.

707 Loop Calibrator

- Features of the Fluke 705
- “Quick Click” detented rotary knob for one handed operation
- Higher accuracy : 0.015%
- Mains Voltage Input protection
- 250 Ohm loop resistance for with Hart instrumentation

715 Volt/mA Calibrator

- Measure loop current (0-20 mA, 4-20 mA) signals with 0.015% accuracy and 0.001 mA resolution
- Measure voltage output process signals from PLCs, transmitters
- Source or simulate 24 mA loop current
- Source voltage to 100 mV or 10V
- 24V loop supply with simultaneous current measurement

Accessories and Ordering Information

Included Accessories

Fluke 705/707: C10 Protective Yellow Holster, TL75 Test Leads, AC72 Alligator Clips, Instruction Sheet (14 languages).

Fluke 715: C81Y Protective Yellow Holster with Flex-Stand, Test Leads and Alligator Clips, Single 9V alkaline battery, Instruction Sheet (14 languages).

Ordering Information

Fluke 705 Loop Calibrator

Fluke 707 Loop Calibrator

Fluke 715 Volt/mA Calibrator

Specifications

| Functions | 705/707 | 715 |
|-------------------------------|--|---|
| Voltage measurement | | |
| Range | 0-28 V DC | 0-100 mV, 0-10 V |
| Resolution | 1 mV | 10 µV 1 mV |
| Accuracy | 705: 0.025% Rdg + 1 LSD 707: 0.015% Rdg + 2 LSD | 0.02% Rdg + 2 LSD |
| Current measurement | | |
| Range | 0-24 mA | 0-24 m |
| Resolution | 0.001 mA | 0.001 mA |
| Accuracy | 705: 0.025% Rdg + 2 LSD 707: 0.015% Rdg + 2 LSD | 0.015% |
| Current sourcing | | |
| Range | 0-20 mA or 4-20 mA ¹ | 0-20 mA or 4-20 mA ¹ |
| Accuracy | 705: 0.025% Rdg + 2 LSD 707: 0.015% Rdg + 2 LSD | 0.015% + 2 LSD |
| Drive capability | 1000 Ω @ 24 mA | 1000 Ω @ 24 mA |
| Loop power while measuring mA | 24 V | 24 V |
| Voltage sourcing | N/A | 0-100 mV or 0-10 V |
| Display current and % of span | Yes | mA or % |
| Auto step, auto ramp | Yes | No |
| Span Check | Yes | No |
| Battery life | 18 hours typical, at 12 mA | 4-20 hours, typical, depending on functions used |

¹ will over-range to 24 mA