

705/707/707Ex/715 Loop Calibrators

FLUKE®



Fluke 705



Fluke 715



Fluke 707



Fluke 707Ex



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 10 V
- 24 V loop supply with simultaneous current measurement

707Ex Intrinsically Safe Loop Calibrator

- Same features as Fluke 707
- For use in explosion endangered areas
- ATEX certified (II 2 G Eex ia IIC T4)

Specifications

| Functions | 705/707/707 Ex | 715 |
|-------------------------------|--|---------------------------------|
| Voltage measurement | | |
| Range | 0-28 V DC | 0-200 mV, 0-20 V |
| Resolution | 1 mV | 10 µV 1 mV |
| Accuracy | 705: 0.025% Rdg + 2 LSD 707/707Ex: 0.015% Rdg + 2 LSD | 0.01% Rdg + 2 LSD |
| Current measurement | | |
| Range | 0-24 mA | 0-24 mA |
| Resolution | 0.001 mA | 0.001 mA |
| Accuracy | 705: 0.025% Rdg + 2 LSD 707/707Ex: 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 707/707Ex: 0.015% Rdg + 2 LSD | 0.015% + 2 LSD |
| 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 | 0-100 mV or 0-10 V |
| Display current and % of span | Yes | mA or % |
| Auto step, auto ramp | Yes | Yes |
| Span Check | Yes | Yes |

¹ will over-range to 24 mA

Fluke 705, 707, 707Ex

Maximum voltage: 30 V (28 V - 707Ex)
Operating temperature: -10 to 55°C
Safety: CSA C22.2 No. 1010.1: 1992
 EMC: EN50082-1:1992 and EN55022: 1994 Class B
Size (HxWxD): 164 mm x 75 mm x 47 mm;
Weight: 0.35 kg
Battery: One 9 V alkaline
Battery life: 18 hours typical, at 12 mA
Three Year Warranty

715

Size (HxWxD): 201 mm x 98 mm x 52 mm
Weight: 0.6 kg
Battery: One 9V alkaline
Battery life: 4 to 20 hours
Three Year Warranty

Included Accessories

Fluke 705/707: C10 Yellow Holster, TL75 Test Leads, AC72 Alligator Clips, Single 9V alkaline battery, Instruction Sheet
 Fluke 707Ex: Red Ex-holster, Fluke TL75 Test Leads, AC72 Alligator Clips, Single 9V alkaline battery, Instruction Sheet
 Fluke 715: Yellow Holster (H80M excl. TPAK), TL75 Test Leads and AC72 Alligator Clips, Single 9V alkaline battery, Instruction Sheet

Ordering Information

Fluke 705 Loop Calibrator
 Fluke 707 Loop Calibrator
 Fluke 707Ex Intrinsically Safe Loop Calibrator
 Fluke 715 Volt/mA Calibrator



C12A (705/707)



C25 (715)



TL220



TP920



T PAK (715)