

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

Included Accessories

Fluke 705/707: C10 Yellow Holster, Test Leads, AC172 Alligator Clips, Single 9V alkaline battery, Instruction Sheet

Fluke 707Ex: Red Ex-holster, Test Leads, AC172 Alligator Clips, Single 9V alkaline battery, Instruction Sheet

Fluke 715: Yellow Holster (H80M excl. TPAK), Test Leads and AC172 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

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



C12A (705/707)
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C25 (715)
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TL220-1
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TP920
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T PAK (715)
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