

# 705/707/707Ex/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

### 707Ex Intrinsically Safe Loop Calibrator

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

**New**

## Specifications

Functions	705/707/707 Ex	715
<b>Voltage measurement</b>		
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 707/707Ex: 0.015% Rdg + 2 LSD	0.02% Rdg + 2 LSD
<b>Current measurement</b>		
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%
<b>Current sourcing</b>		
Range	0-20 mA or 4-20 mA <sup>1</sup>	0-20 mA or 4-20 mA <sup>1</sup>
Accuracy	705: 0.025% Rdg + 2 LSD 707/707Ex: 0.015% Rdg + 2 LSD	0.015% + 2 LSD
Drive capability	705/707: 1000 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	No
Span Check	Yes	No
Battery life	18 hours typical, at 12 mA	4-20 hours, typical, depending on functions used

<sup>1</sup> will over-range to 24 mA

## Accessories and Ordering Information

**Included Accessories**  
Fluke 705/707: C10 Protective Yellow Holster, TL75 Test Leads, AC72 Alligator Clips, Instruction Sheet

Fluke 707Ex : Red Ex-holster, Fluke TL75 Test Leads, AC72 Alligator Clips, Instruction Sheet

Fluke 715: C81Y Protective Yellow Holster with Flex-Stand, 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