

# Fluke 705, 707, 707Ex and 715 Loop Calibrators

Complete family of volt/mA calibrators.

New



## Fluke 707 and 705

Two powerful models to choose from

- Innovative output adjustment dial on 707 provides 1  $\mu$ A and 100  $\mu$ A resolution and one-hand operation
- Large display and simple interface for ease of use
- Simultaneous mA and % readout for quick, easy interpretation of readings
- mA accuracy of 0.015 % on the Fluke 707 and 0.02 % on the 705
- HART™ mode on 707 connects 250 ohm resistor in series with 24 V loop for compatibility with HART communicators
- Push button 25 % steps for fast, easy linearity checks
- "Span Check" for fast confirmation of zero and span
- Selectable slow and fast linear step ramp provide ramping outputs for valve slewing, remote testing and loop functional tests
- 24 V internal loop supply, so you can power and read a transmitter at the same time without carrying a DMM
- 0-20 mA or 4-20 mA default start up modes.

## Fluke 707Ex Intrinsically Safe Loop Calibrator

All the great features of the 707 plus certification in accordance with the ATEX directive (Ex II 2 G EEx ia IIC T4) and Factory Mutual W.I. Class 1, Div. 2 Groups A-D.



## Troubleshooting process loops Application Note

(Literature code 1989137)

In process systems, problems with the loop can bring things to a screeching halt. In this application note, find out how to use Fluke test tools to identify current loop problems such as noise, ripple and drift.



## Fluke 715 Volt/mA Calibrator

- Source voltage to 100 mV or 10 V
- Measure loop current (0-20 mA, 4-20 mA) signals with 0.015 % accuracy and 1  $\mu$ A resolution
- Measure voltage output process signals from PLCs, transmitters
- Source or simulate 24 mA loop current
- 24 V loop supply with simultaneous current measurement

## Specifications - 705, 707, 707Ex and 715

Functions	Fluke 705, 707 and 707Ex	Fluke 715
<b>Voltage measurement</b>		
Range	0 to 28 V	0 to 100 mV    0 to 10 V
Resolution	1 mV	10 $\mu$ V    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: 0.02 % Rdg + 2 LSD 707, 707Ex: 0.015 % Rdg + 2 LSD	0.015 % + 2 LSD
<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 % Rdg + 2 LSD
Drive capability	705: 1000 $\Omega$ @ 24 mA 707: 1200 $\Omega$ @ 24 mA 707Ex: 700 $\Omega$ @ 20 mA	1000 $\Omega$ @ 24 mA
Loop power while measuring mA	24 V	24 V
<b>Voltage sourcing</b>	N/A	0 to 100 mV or 0 to 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	18 hours typical, at 12 mA

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



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## Recommended accessories - 705, 707, 707Ex and 715 Calibrators



## Included accessories

Fluke 705, 707 and 707Ex: C81Y Protective holster, TL75 Test Leads, AC72 Test Clips, instruction sheet (14 languages).

Fluke 715: C81Y Protective Yellow Holster with Flex-Stand, test leads and alligator clips, single 9 V alkaline battery, instruction sheet (14 languages).

## Ordering information

Fluke-705    Loop Calibrator  
Fluke-707    Loop Calibrator  
Fluke-707Ex    IS Loop Calibrator  
Fluke-715    Volt/mA Calibrator