

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 μ A and 100 μ 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 μ 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
Voltage measurement		
Range	0 to 28 V	0 to 100 mV 0 to 10 V
Resolution	1 mV	10 μ V 1 mV
Accuracy	705: 0.025 % Rdg + 1 LSD 707, 707Ex: 0.015 % Rdg + 2 LSD	0.02 % Rdg + 2 LSD
Current measurement		
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
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 % Rdg + 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 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

¹Will over-range to 24 mA



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



TL28A
See page 39

TL220
See page 39

C25
See page 44

C550
See page 44

PV350
See page 47

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

For more information, go to www.MyFlukeStore.com