

Fluke Process Loop Calibrators

Fluke 705 Loop Calibrator

- Simultaneous mA and % Readout
- Fast “Span Check”
- Selectable Slow Ramp, Fast Ramp & Step
- 24V Internal Loop Supply

Fluke 707 Loop Calibrator

705 Features, Plus:

- Output Adjustment Dial
- HART™ Mode
- 0.015% Accuracy

Fluke 787 Process Meter

- DMM and Loop Calibrator
- Backlit LCD
- 1000V Overload Protection on V, Ohms, Frequency

Fluke 789 Process Meter

787 Features, Plus:

- 24V Loop Power Supply
- HART™ Mode
- Fast “Span Check”

Fluke 715 Volt/mA Calibrator

- Measure loop Currents and Process Voltages
- Source Loop Currents to 24mA
- Source Voltage to 10V

787 ▼

SPECIFICATIONS				
Functions	Fluke 705 and 707	Fluke 715	Fluke 787 and 789	
Voltage measurement				
Range	0-28 V dc	0-100 mV 0-10 V	0-1000 V ac or dc	
Resolution	0.001V	10 μ V 1 mV	0.1mV to 1.0V	
Accuracy	705: 0.025% Rdg + 1 LSD 707: 0.015% Rdg + 2 LSD	0.02% Rdg + 2 LSD	0.1% Rgd + 1 LSD (VDC)	
Current measurement				
Range	0-24 mA	0-24 mA	0-1A dc	0-30 mA dc
Resolution	0.001 mA	0.001 mA	1mA dc	0.001 mA dc
Accuracy	705: 0.02% Rdg + 2 LSD 707: 0.015% Rdg + 2 LSD	0.015% + 2 LSD	0.2%+2 LSD	0.05%+2 LSD
Current sourcing				
Range	0-20 mA or 4-20 mA ¹	0-20 mA or 4-20 mA ¹	0-20 mA or 4-20 mA ¹	
Accuracy	705: 0.025% Rdg + 2 LSD 707: 0.015% Rdg + 2 LSD	0.015% Rdg + 2 LSD	0.05% of span	
Drive capability	705: 1000 Ω @ 24 mA 707: 1200 Ω @ 24 mA	1000 Ω @ 24 mA	787: 500 Ω @ 24 mA 789: 1200 Ω @ 24 mA	
Loop power while measuring mA	24V	24V	24V (789 only)	
Voltage sourcing	N/A	0-100 mV or 0-10V	N/A	
Resistance measurement	N/A	N/A	to 40M Ω , 0.2% + 1 LSD	
Frequency	N/A	N/A	to 19.999 kHz, 0.005% + 1 LSD	
Diode test	N/A	N/A	2.4 V shows diode voltage drop	
Continuity	N/A	N/A	Beeps for resistance <100 ohms	
Display current and % of span	Yes	mA or %	Yes	
Auto step, auto ramp	Yes	No	Yes	
Span Check	Yes	No	789 only	

¹Will over-range to 24 mA



705 ▲



Fluke Temperature Calibrators



712 ▶



Fluke 712 RTD Calibrator

- Rosemount® pulsed transmitter compatible (pulses >100ms)
- Measure temperature from RTD output
- Simulate RTD output
- Operates with seven types of RTD
- Measure additional RTDs using Ohms measurement function
- Simulate additional RTDs using Ohms source function
- °F or °C selectable
- Four shrouded banana jacks

Fluke 714 Thermocouple Calibrator

- Measure temperature from TC output
- Simulate TC output
- Operable with nine types of thermocouples
- Calibrate linear TC transmitter with mV source function
- Selectable °F or °C
- Thermocouple mini-jack termination
- Available as accessories: Fluke 700TC1 and TC2 Thermocouple Mini-plug Kits

SPECIFICATIONS

Model	Function	Range	Resolution	Accuracy	Notes
Fluke-712	Measure/simulate RTD	-200 to 800°C (Pt 100)	0.1°C, 0.1°F	0.33°C, 0.6°F (Pt 100)	Pt; 100 200 500 1000 (385); Pt 100 (392); Pt 100 (392) JIS; Ni 120 (672)
	Measure/simulate Resistance	15 Ω to 3200 Ω	0.1 Ω	0.1 Ω to 1 Ω	
Fluke-714	Measure/simulate Thermocouple	-200 to 1800°C, depending on type (K, -200 to 1370°C)	0.1°C or °F (1°C or °F; BRS)	0.3°C + 10 μ V	9 TC types; J K T E R S B per NIST 175 and ITS-90 L U per DIN 43710 and PTS-68
	Measure/simulate	-10 to 75 mV	0.01 mV	0.025% mV + 1 count	