

## 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	
<b>Voltage measurement</b>				
Range	0-28 V dc	0-100 mV 0-10 V	0-1000 V ac or dc	
Resolution	0.001V	10 $\mu$ 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)	
<b>Current measurement</b>				
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
<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>	0-20 mA or 4-20 mA <sup>1</sup>	
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 $\Omega$ @ 24 mA 707: 1200 $\Omega$ @ 24 mA	1000 $\Omega$ @ 24 mA	787: 500 $\Omega$ @ 24 mA 789: 1200 $\Omega$ @ 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 $\Omega$ , 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	

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



**705** ▲



## Fluke Temperature Calibrators



### Fluke 712B RTD Calibrator

- Measure & simulate 13 RTD types & resistance
- Measure 4-20mA signals while sourcing an RTD signal
- Configurable 0% to 100% source for quick 25% linearity checks
- Linear ramp & 25% auto ramp
- Power down settings remembered at power up
- Dual inputs & backlit display
- Hanging tool built into case
- 1 and 2 year specs plus traceable certificate of calibration



### Fluke 714B Thermocouple Calibrator

- Measure & simulate 17 TC types
- Measure 4-20mA signals while sourcing a thermocouple signal
- Configurable 0% to 100% source for quick 25% linearity checks
- Linear ramp & 25% auto ramp
- Power down settings remembered at power up for easy restart of tests
- Dual inputs & backlit display
- Hanging tool built into case
- 1 and 2 year specs plus calibration certificate

### SPECIFICATIONS

Model	Function	Range	Resolution	1 yr Accuracy	Types
Fluke-712B	Measure/simulate RTD	-200 to 800°C, depending on type	0.1°C	0.015%+0.18°C (Pt 100, 100-800°)	Pt 10 50 100 200 500 1000 (385); Pt 100 (3916 3926); Ni 120 (672); Cu 10 50 100 (427); YSI400
	Measure/simulate Resistance	0 to 400 $\Omega$ 40 to 4000 $\Omega$	0.01 $\Omega$ 0.1 $\Omega$	0.015% + 5d	
Fluke-714B	Measure/simulate Thermocouple	-250 to 2500°C, depending on type	0.1°C	0.3°C (Type K -100 to 400°)	J K T E N R S B C L U G D P B P X K M (K range = -200 to 1372°C)
	Measure/source mV	-10 to 75 mV	0.01 mV	0.015% + 1d	
Both Models	Measure DC mA	0 to 24 mA	0.001 mA	0.010% + 2d	