

# 725 Multifunction Process Calibrator

Simply powerful



The Fluke 725 Multifunction Calibrator is a versatile, easy-to-use field calibrator. Use the measure and source functions to test and calibrate almost anything.

- Smaller, streamlined shape makes it easy to carry
- Rugged, reliable design stands up to field use
- Easy to read measure/source screen lets you view input and output simultaneously
- Measure volts, mA, RTDs, thermocouples, frequency, and ohms to test sensors and transmitters
- Source/simulate volts, mA, thermocouples, RTDs, frequency, ohms, and pressure to calibrate transmitters
- Measure/source pressure using any of 29 Fluke 700Pxx Pressure Modules

- Source mA with simultaneous pressure measurement to conduct valve and I/P tests
- Support flow meter testing with frequency and CPM (counts per minute) functions
- Perform fast linearity tests with auto step and auto ramp features
- Power transmitters during test using loop supply with simultaneous mA measurement
- Store frequently-used test setups for later use
- Backlight lets you work in poor light
- Remote interface allows benchtop automated operations
- Large battery capacity of four AA cells
- Battery door for easy changes

Simultaneous Function Capability	Channel A	Channel B
24.000 mA DC	M	M or S
24.000 mA DC with 24V loop supply	M	
100.00 mV DC		M or S
30.000V DC Measure	M	
20.000V DC Measure 10.000V DC Source		M or S
15 to 3200 Ohms		M or S
Thermocouple J, K, T, E, R, S, B, L, U, N		M or S
RTD Ni120; Pt100 (392); Pt100 (JIS); Pt100, 200, 500, 1000 (385)		M or S
Pressure Eleven Engineering Units; use Fluke 700PXX Modules	M	M used as S
Frequency; Squarewave, 1 CPM to 10 kHz; fixed amplitude 5V p-p		M or S

M = Measure S = Source/Simulate

## Specifications

### Summary specifications (18°C to 28°C for one year)

Function	Range	Resolution	Accuracy	Notes
Measure or Source	0 to 100 mV	0.01 mV	0.02% Rdg + 2 LSD	Max load, 1 mA
	0 to 10V (source) 0 to 30V (measure)	0.001V 0.001V		
mA	0 to 24	0.001 mA	0.02% Rdg + 2 LSD	Max load, 1000Ω
mV	-10.00 mV to +75.00 mV	0.01 mV	0.025% + of range + 1 LSD	
Resistance	0Ω to 3200Ω (measure)	0.01Ω to 0.1Ω	0.10Ω to 1.0Ω	
	15Ω to 3200Ω (source)			
Frequency	1 CPM to 10 kHz	5 digits	0.05% + 1 count	Squarewave
Loop Supply	24V DC	N/A	10%	
Thermocouples	J,K,T,E,L,N,U	0.1°C	to 0.7°C	
Thermocouples	B,R,S	1°C	to 1.4°C	
RTDs	Ni120 (672)	0.1°C	to 0.2°C	
	Pt 100, 200, 500, 1000 (385)			
	Pt 100 (3916)			
	Pt 100 (3926)			

**Maximum voltage:** 30V

**Storage temperature:** -20°C to 71°C

**Operating temperature:** -10°C to 55°C

**Relative humidity:** 90% (10°C to 35°C); 75% (30°C to 40°C); 45% (40°C to 50°C); 35% (50°C to 55°C)

**Shock:** 30g, 11ms, half-sine shock (or 1meter drop test)

**Vibration:** Random, 2g, 5-500 Hz

**Safety:** CSA C22.2 No. 1010.1:1992

**EMC:** EN50082-1:1992 and EN55022:1994 Class B

**Size/weight (HxWxD):** 96 x 200 x 47 mm ; 0.65 kg

**Battery:** Four AA alkaline batteries. Battery life: 25 hours typical

**Three Year Warranty**

## Accessories and Ordering Information

### Included Accessories

Each calibrator includes TL75 Test Leads, AC72 Test Clips, one pair of stackable test leads, user's Manuals.

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