

725 Multifunction Process Calibrator

FLUKE®



Fluke 725



Simply powerful

725 Multifunction Process Calibrator

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

- 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

Features

Simultaneous Function Capability	Channel A	Channel B
24.000 mA DC	M	M or S
24.000 mA DC with 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

Function Measure or Source	Range	Resolution	Accuracy	Notes
Voltage	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) 15Ω to 3200Ω (source)	0.01Ω to 0.1Ω	0.10Ω to 1.0Ω	
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 (HxWxD): 200 mm x 96 mm x 47 mm

Weight: 0.65 kg

Battery: Four AA alkaline batteries.

Battery life: 25 hours typical; battery door

Three Year Warranty

Included Accessories

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

Ordering Information

Fluke 725 Multifunction Process Calibrator

Recommended Accessories



C125



TL220



80PK-27



TPAK



700P27