

725 Multifunction Process Calibrator

Simply powerful



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

- New 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 Measure or Source | Range | Resolution | Accuracy | Notes |
|----------------------------|---|-----------------------------|---------------------------|-----------------|
| Voltage | 0 to 100 mV 0 to 10V (source) 0 to 30V (measure) | 0.01 mV 0.001V 0.001V | 0.02% Rdg + 2 LSD | Max load, 1 mA |
| 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) Pt 100, 200, 500, 1000 (385) Pt 100 (3916) Pt 100 (3926) | 0.1°C | to 0.2°C | |

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.

Ordering Information

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