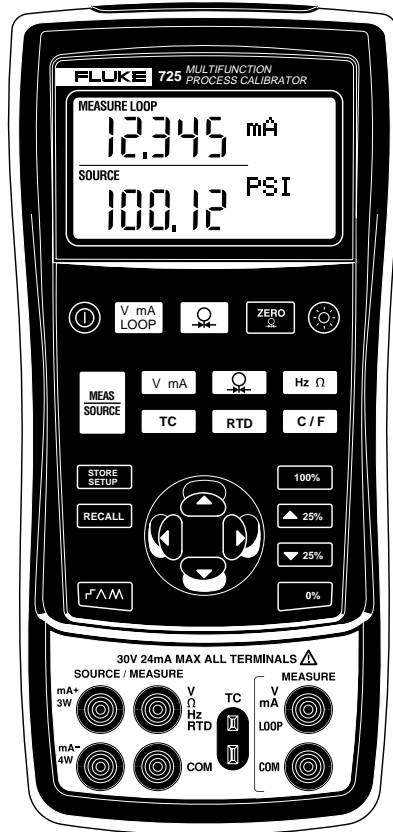




Fluke 725 Multifunction Calibrator

New



Simply Powerful!

The new Fluke 725 Multifunction Process Calibrator is a powerful yet easy-to-use field calibrator. Use the measure and source functions to test and calibrate almost any process parameter.

- Small, 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, and ohms to calibrate transmitters
- Measure/source pressure using any of 28 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 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 (requires 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

Fluke. *Keeping your world up and running.*

Ordering information

Fluke 725 Multifunction Process Calibrator
 Each calibrator includes: TL75 Test Leads, AC70A Test Clips, one pair of stackable test leads, Users Manuals appropriate to country of destination (English, plus three of: French, German, Spanish, Italian, Dutch, Norwegian, Danish, Swedish, Finnish, Portuguese, Korean, Chinese, and Japanese), Statement of Quality Assurance Practices; CE and CSA markings.

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 0.01V 0.01V | .02% Rdg + 2 LSD | Max load, 1 mA |
| mA | 0 to 24 | 0.001 mA | .02% Rdg + 2 LSD | Max load, 1000Ω |
| mV (TC terminals) | -10.00 mV to +75.00 mV | .01 mV | .025% of range + 1 LSD | |
| Resistance | 15Ω to 3200Ω | 0.01Ω to 0.1Ω | 0.10Ω to 1.0Ω | |
| Frequency | 2.0 to 1000.0 CPM 1 to 1000 Hz 1.0 to 10.0 kHz | 0.1 CPM 1 Hz 0.1 kHz | ±.05% ±.05% ±.25% | For frequency source, waveform is 5V p-p squarewave, -0.1V offset |
| Loop Supply | 24V dc | N/A | 10% | |

Temperature coefficient, -10°C to 18°C, 28°C to 55°C, ±.005% of range per °C.

Thermocouple accuracy specifications

| Thermocouple | Measure or Source | |
|--|---|-------------------------|
| J | -200 to 0°C 0 to 1200°C | 1.0°C 0.7°C |
| K | -200 to 0°C 0 to 1370°C | 1.2°C 0.8°C |
| T | -200 to 0°C 0 to 400°C | 1.0°C 0.8°C |
| E | -200 to 0°C 0 to 950°C | 0.9°C 0.7°C |
| R | -20 to 0°C 0 to 500°C 500 to 1750°C | 2.5°C 1.8°C 1.4°C |
| S | -20 to 0°C 0 to 500°C 500 to 1750°C | 2.5°C 1.8°C 1.5°C |
| B | 600 to 800°C 800 to 1000°C 1000 to 1800°C | 2.2°C 1.8°C 1.4°C |
| L | -200 to 0°C 0 to 900°C | 0.85°C 0.7°C |
| U | -200 to 0°C 0 to 400°C | 1.1°C 0.75°C |
| N | -200 to 0°C 0 to 400°C | 1.5°C 0.9°C |
| Resolution | | |
| J, K, T, E, L, N, U | 0.1°C, 0.1°F | |
| B, R, S | 1°C, 1°F | |
| Notes | | |
| Accuracy specifications include 0.2°C cold junction uncertainty. | | |

RTD ranges and accuracy specifications

| RTD Types, Ranges and Accuracies | | | |
|----------------------------------|-----------------------------------|------------------|----------------|
| | | Measure (4 wire) | Source |
| Ni 120 | -80°C to 260°C | 0.2°C | 0.2°C |
| Pt 100 - 385 | -200°C to 800°C | 0.33°C | 0.33°C |
| Pt 100 - 3926 | -200°C to 630°C | 0.3°C | 0.3°C |
| Pt 100 - 3916 (JIS) | -200°C to 630°C | 0.3°C | 0.3°C |
| Pt 200 - 385 | -200°C to 250°C 250°C to 630°C | 0.2°C 0.8°C | 0.2°C 0.8°C |
| Pt 500 - 385 | -200°C to 500°C 500 to 630°C | 0.3°C 0.4°C | 0.3°C 0.4°C |
| Pt 1000 - 385 | -200°C to 100°C 100°C to 630°C | 0.2°C 0.3°C | 0.2°C 0.2°C |
| Resolution | | | |
| RTD | 0.1°C, 0.1°F | | |

General specifications

Maximum voltage: 30V
Storage temperature: -40°C to 71°C
Operating temperature: 10°C to 55°C
Relative humidity: 95% (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: 96 x 200 x 47 mm (3.8 x 7.9 x 1.9 inches) 650g (23 oz)
Battery: Four AA alkaline batteries. Battery life: 25 hours typical
Warranty: Three years