Fluke 725 Multifunction Process Calibrator

The 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, 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 functions
- Perform fast linearity tests with auto- step and auto-ramp features
- Power transmitters during test using loop supply with simultaneous mA measurement
- Handling of fast pulsed RTD transmitters and PLCs, with pulses as short as 10 ms
- Store frequently used test setups for later use
- Backlight lets you work in poor light
- Large battery capacity of four AA cells
- Battery door for easy changes

Take along the new Fluke 725 Multifunction Process Calibrator, and you're equipped to test and calibrate almost any process parameter. Measure and source mA, volts, temperature (RTDs and thermocouples), frequency, ohms, and pressure, using optional pressure modules.
Do you need to calibrate transmitters? The 725's split display lets you view input and output values simultaneously. For valve and I/P tests, you can source mA while measuring pressure. The 725 has auto-stepping and auto-ramping for remote testing, plus 25% stepping for fast linearity tests.
From the moment you pick it up, the Fluke 725 is ready to perform. Its simple controls, without menus, make operation easy. Its memory functions make set up fast. And its rugged design lets it work as hard as you do.

Measurement Accuracy
Voltage DC 30.000 V 0.02%+ 2 counts (upper display)
30.000 V 0.02%+ 2 counts (lower display)
100.00 mV 0.02%+ 2 counts
-10.00 mV to 75.00 mV 0.025 % + 1 count (via TC connector)

Current DC 24.000 mA 0.02%+ 2 counts

Resistance 0.0 to 400.0 .W 0.1Ù (4-wire), 0.15Ù (2- and 3-wire)
401 to 1500 .W 0.5Ù (4-wire), 1Ù (2- and 3-wire)
1500 to 3200 .W 1Ù (4-wire), 1.5Ù (2- and 3-wire)

Frequency 2.0 to 1000.0 CPM 0.05 % + 1 count
1.0 to 1100.0 Hz 0.05 % + 1 count
1.00 to 10.00 kHz 0.05 % + 1 count
Sensitivity 1 V peak-to-peak-minimum

Pressure Accuracy from 0.025% of range using any of 29 pressure modules.
(for detailed specifications refer to pressure modules in options and accessories)
Modules available for differential, gage, vacuum, absolute, dual and high pressure.

Source Accuracy
Voltage DC 100.00 mV 0.02%+2 counts
10.000 V 0.02%+2 counts
-10.00 mV to 75.00 mV 0.025 % + 1 count (via TC connector)

Current DC 24.000 mA (Source) 0.02%+ 2 counts
24.000 mA (Simulate) 0.02%+ 2 counts

Note: Accuracy stated for 4-wire measurement.
J: 0.7 °C
K: 0.8 °C
T: 0.8 °C
E: 0.7 °C
R: 1.4 °C
S: 1.5 °C
B: 1.4 °C
L: 0.7 °C
U: 0.75 °C
N: 0.9 °C
Resolution J, K, T, E, L, N, U: 0.1 °C, B, R, S: 1 °C

Technical Data
Ramp Functions Source functions: Voltage, current, resistance, frequency, temperature
Ramps Slow ramp, Fast ramp, 25% step-ramp

Loop Power Function Voltage: 24 V
Accuracy: 10%
Maximum current: 22 mA, short circuit protected

Step Functions Source functions: Voltage, current, resistance, frequency, temperature
Steps 25% of range, 100% of range

Environmental Specifications
Operating temperature -10 °C to +55 °C

Storage temperature -20 °C to 71 °C

Operating Altitude 3000 m

Safety Specifications
Agency Approvals EN 61010-1:1993, ANSI/ISA S82.01-1994; CAN/CSA C22.2 No 1010.1:1992

Mechanical & General Specifications
Size 130 x 236 x 61 mm

Weight 0.65 kg

Batteries 4 AA alkaline batteries

Battery Replacement Separate battery compartment, accessible without breaking calibration seal

Side port connections Pressure module connector, also used for remote real-time programming

Fluke 725 NATA Process Calibrator - Datasheet

Fluke 725 NATA Process Calibrator with NATA Certification
FLU,725-NATA (4719)

DC voltage measurement 0.025%, 300V max, source 0.02%, 11V max. DC current measurement 0.025%, 110mA max, source 0.01%, 22 mA max. Resistance measurement 0.05%, 11kohm max, source 0.01%, 11kohm max. Frequency measurement 5 counts 1Hz to 50kHz, source 1 count 20Hz to 5kHz. 'K' thermocouple measurement 0.3ºC, source 0.3ºC. Pt100 RTD measurement 0.5ºC, source 0.2ºC. Measures and simulates 4-20mA, t/c E, N, J, K, T, B, R, S, & C, 2, 3 & 4 wire RTDs and frequency. Operates from dry cell batteries. (Includes NATA calibration - AU).

Related products that will enhance testing capability

Druck DPI610-400-NATA
400 bar Pressure Calibrator
DRU,DPI610-400-NATA (4779)

Druck DPI610-2-NATA
2 bar Pressure Calibrator
DRU,DPI610-2-NATA (4767)

Fluke 70 Bar Pressure
Transducer & Pump suit
Fluke 744 & 725
FLU,700P08-70BAR (4723)

Jofra 1000 bar DPC-500
Documenting Pressure
Calibrator NATA
JOF,DPC-1000-NATA (4782)

Save your time and reduce your costs by using our data management services. Learning to operate unfamiliar equipment costs you time and can lead to fundamental errors in data capture processing. There is a better solution - our setup and download service.

Our technical staff are equipped and trained to deliver you the downloaded data in a range of suitable output formats including USB drive, CD-ROM, printout, chart and DVD according to your need and the product's functionality. Save your time and reduce your real costs. Contact TechRentals to find out about our Configuration and Download solutions.

If you don't see the type of equipment you are looking for, contact us to discuss your requirements.