

# Fluke 726 and 725 Multifunction Process Calibrators



## Fluke 726 Precision Multifunction Process Calibrator

The Fluke 726 measures and sources nearly all process parameters and can calibrate almost anything. Interpret results without the help of a calculator and store measurement data for later analysis.

- Precise measurement and calibration source performance, accuracies of 0.01 %
- Transmitter error % calculation, interpret calibration results without a calculator
- Memory storage for up to eight calibration results, return stored calibration data from the field for later analysis
- Frequency totalizer and frequency pulse train source mode for enhanced flowmeter testing
- HART mode inserts 250 ohm resistor in mA measure and source for compatibility with HART instrumentation
- Integrated pressure switch test allows you to capture the set, reset and deadband of a switch
- Custom RTD curves, add calibration constants for certified RTD probes for temperature measurement
- Voltage input protection design for improved reliability



## Fluke 725 Multifunction Process Calibrator

- 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 counts per minute (CPM) functions
- Perform fast linearity tests with auto step and auto ramp features



Intrinsically safe version available (see page 40)

## Specifications

### Measure and source

Functions	Range or type	Resolution	Accuracy	Notes
Voltage	0 to 100 mV 0 to 10 V (source) <b>0 to 20 V (source)</b> 0 to 30 V (measure)	0.01 mV 0.01 V 0.01 V 0.01 V	<b>0.01 %</b> , 0.02 % Rdg + 2 LSD	Max load, 1 mA
mA	0 to 24	0.001 mA	<b>0.01 %</b> , 0.02 % Rdg + 2 LSD	Max load, 1000 Ω
mV (TC terminals)	-10.00 mV to +75.00 mV	.01 mV	<b>0.01 %</b> , 0.02 % of range + 1 LSD	—
Ohms	15 Ω to 3,200 Ω <b>5 Ω to 4,000 Ω</b>	0.01 Ω to 0.1 Ω	0.10 Ω to 1.0 Ω <b>0.015 %</b>	—
Hz - CPM	2.0 to 1,000 CPM 1 to 1000 Hz 1.0 to 10.0 kHz <b>10.0 to 15.0 kHz</b>	0.1 CPM 1 Hz 0.1 kHz <b>0.1 kHz</b>	± 0.05 % ± 0.05 % ± 0.25 % <b>± 0.05 %</b>	Source; 5 V p-p <b>1 V to 20 V p-p</b> squarewave, -0.1 V offset
Loop supply	24 V dc	N/A	10 %	—
T/C	J, K, T, E, L, N, U, XK	0.1 °C, 0.1 °F	to 0.7 °C <b>to 0.2 °C</b>	—
T/C	B, R, S, BP	1 °C, 1 °F	to 1.7 °C <b>to 1.2 °C</b>	—
RTDs	<b>Cu (10)</b> , Ni120 (672) Pt 100, 200, 500, 1000 (385) Pt 100 (3916), Pt 100 (3926)	<b>0.01 °C</b> , <b>0.01 °F</b>	<b>to 0.15 °C</b>  to 0.2 °C	—

Unique 726 specifications are bolded.

### General specifications

**Storage temperature:**  
-20 °C to 71 °C  
**Operating temperature:**  
-10 °C to 55 °C  
**Relative humidity:**  
90 % (10 °C to 30 °C);  
75 % (30 °C to 40 °C);  
45 % (40 °C to 50 °C);  
35 % (50 °C to 55 °C)  
**Shock:** 1 meter drop test  
**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 (7.9 in x  
3.8 in x 1.9 in)  
**Weight:** 650 g (23 oz)  
**Battery:** Four AA alkaline  
batteries  
**Battery life:** 25 hours typical  
**Warranty:** Three-years

## Recommended accessories



**TPAK**  
Magnetic  
Meter Hanger  
See page 64

**80PK-27**  
Industrial Surface  
Temperature Probe  
See page 60



**700Pxx**  
Pressure Modules  
See page 39



**C125**  
Soft Carrying Case  
See page 56

Simultaneous function capability	Channel A	Channel B
24.000 mA dc	M	M or S
24.000 mA dc with 24 V loop supply	M	—
100.00 mV dc	—	M or S
30.000 V dc measure	M	—
20.000 V dc measure; 10.000 V dc source; 20.000 V dc source	—	M or S
15 Ohms to 3200 Ohms (725); 5 Ohms to 4000 Ohms (726)	—	M or S
Thermocouple J, K, T, E, R, S, B, M, L, U, N, XK, BP	—	M or S
RTD Cu 10, Ni120; Pt100 (392); Pt100 (JIS); Pt100, 200, 500, 1000 (385), XK and BP	—	M or S
Pressure (requires Fluke 700PXX Modules)	M	M used as S
Frequency; 10 kHz; (15 KHz 726)	—	M or S

M = Measure, S = Source/Simulate

## Ordering information

Included accessories	Models
Test leads, test clips, one pair of stackable test leads, product overview manual, users manual in 14 languages on CD.	FLUKE-726 Precision Multifunction Process Calibrator
	FLUKE-726 Ex Intrinsically Safe Precision Multifunction Process Calibrator
	FLUKE-725 Multifunction Process Calibrator

Check price and availability at [www.fluke.com/wt8](http://www.fluke.com/wt8)