

# 725/725Ex/726 Multifunction Process Calibrators

FLUKE®



## More calibration power!

### 725/725Ex/726 Multifunction Process Calibrators

- Two separate channels; measure, source and view process signals simultaneously
- Measure volts, mA, RTDs, thermocouples, frequency, and resistance to test sensors and transmitters
- Source/simulate volts, mA, thermocouples, RTDs, frequency, and pressure to calibrate transmitters
- Measure or \*source pressure using any of 29 Fluke 700Pxx Pressure Modules
- Source mA with simultaneous pressure measurement to conduct valve and I/P tests
- Perform fast linearity tests with auto step and auto ramp features
- Power transmitters during test using 24 V loop supply and simultaneous mA measurement
- Store frequently-used test setups for later use
- For 725Ex version see also page 84 and 85

### 726 Precision Multifunction Process Calibrator

Additional features:

- More precise measurement and calibration source performance, accuracies of 0.01%
- Transmitter error% calculation
- Memory storage for up to 8 calibration results
- 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 enhanced temperature measurement

\*Pressure pump required

## Features

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
30.000V DC Measure	M	
20.000V DC Measure		M or S
10.000V DC Source		
20.000V DC Source		
15 to 3200 Ohms		M or S
5 to 4000 Ohms		
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)		M or S
Pressure (requires Fluke 700PXX Modules)	M	M used as S
Frequency; 10 kHz; <b>(15 KHz)</b>		M or S

M = Measure S = Source/Simulate  
 Unique 726 features are **in bold**  
 725Ex: ATEX certified  
 (Ex ATEX II IG EEX 1a IIB 171°C)

Unique 726 features are **in bold**

## Specifications

Function Measure or Source	Range or Type	Resolution	Accuracy	Notes
Voltage	0 to 100 mV 0 to 10V (source) <b>0 to 20 V (source)</b> 0 to 30 V (measure)	0.01 mV 0.01V 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, 725/726: 1000Ω 725Ex: 500Ω
mV (TC terminals)	-10.00 mV to +75.00 mV	0.01 mV	<b>0.01%</b> 0.02% of range + 1 LSD	
Ohms	15Ω to 3200Ω <b>5Ω to 4000Ω</b>	0.01Ω to 0.1Ω	0.10% to 1.0% <b>0.015%</b>	
Hz - CPM	2.0 to 1000 CPM 1 to 1100 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; 5V p-p <b>1V - 20 V p-p</b> squarewave, -0.1 V offset
Loop Supply	725/726: 24 V DC 725Ex: 12 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>	to <b>0.15 °C</b>	
		0.1 °C, 0.1 F	to 0.2 °C	

**Maximum voltage:** 30V  
**Operating temperature:** 10°C to 55°C  
**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  
**Warranty 725, 726:** Three years  
**Warranty 725Ex:** One year

### Included Accessories

TL75 Test Leads, AC72 Test Clips, one pair of stackable test leads, user's Manuals on CD-ROM (725Ex also includes CCD control drawing, Statement of Quality Assurance Practices, NIST Traceable calibration certificate)

### Ordering Information

Fluke 725 Multifunction Process Calibrator  
 Fluke 725Ex Intrinsically Safe Multifunction Process Calibrator  
 Fluke 726 Precision Multifunction Process Calibrator

## Recommended Accessories

(Not for hazardous zones)



**C125**  
See page 94



**TL220**  
See page 88



**80PK-27**  
See page 92



**TPAK**  
See page 97



**700P27**  
See page 82