

# Fluke 725/Ex and 726 Multifunction Process Calibrators



Fluke 726

Fluke 725



### More calibration power!

- 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 750Pxx 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
- Power transmitters during test using 24 V loop supply and simultaneous mA measurement
- Store frequently-used test setups for later use
- Three year warranty

### 726 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 totaliser and frequency pulse train source mode
- HART mode inserts 250 ohm resistor in mA measure and source for compatibility with HART instrumentation
- Integrated pressure switch test
- Custom RTD curves, add calibration constants for certified RTD probes for enhanced temperature measurement

### Specialty Model

#### Fluke 725Ex Intrinsically Safe Multifunction Process Calibrator



The Fluke 725Ex Intrinsically Safe Multifunction Process Calibrator is powerful yet easy-to-use. Combined with the Fluke 700Pxx Pressure Modules, the 725Ex is able to calibrate almost any process instrument likely to need service in any area where explosive gases may be present.

- ATEX safety rating II IG Ex ia IIB 171°C

See page 132 for more information.

### Recommended Accessories



### Included Accessories

Test Leads, AC175 Test Clips, Stackable Test Leads (1 pair), User Manuals on CD (725Ex also includes CCD Control Drawing, Statement of Quality Assurance Practices, NIST Traceable Calibration Certificate)

### Ordering Information

<b>FLUKE-725</b>	Multifunction Process Calibrator
<b>FLUKE-725EX</b>	Intrinsically Safe Multifunction Process Calibrator
<b>FLUKE-726</b>	Precision Multifunction Process Calibrator

### Specifications

Function or Source	Range or Type	Resolution	Accuracy	Notes
Voltage	0 to 100 mV 725: 0 to 10V (source) <b>0 to 20V (source)</b> 725/726: 0 to 30V (measure)	0.01 mV 0.001 V 0.001 V 0.001 V	<b>0.01%</b> 0.02% Rdg + 2 LSD	Max load, 1 mA
mA	0 to 24	0.001 mA	0.01%; 0.02% Rdg + 2 LSD	Max load, 725/726: 1000Ω 725Ex: 250Ω
mV (TC terminals)	-10.00 mV to +75.00 mV	0.01 mV	<b>0.01%</b> 0.025% 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 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; 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 to 0.2 °C	
T/C	B, R, S, BP	1 °C, 1 °F	to 1.7 °C to 1.2 °C	
RTDs	<b>Cu (10)</b> , Ni 120 (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>	
		0.1 °C, 0.1 °F	to 0.2 °C	

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; <b>20.000 V DC source</b>	—	M or S
15 to 3200 Ohms (725); <b>5 to 4000 Ohms (726)</b>	—	M or S
Thermocouple J, K, T, E, R, S, B, M, L, U, N, XK, BP	—	M or S
RTD <b>Cu 10</b> , Ni120; Pt100 (392); Pt100 (JIS); Pt100, 200, 500, 1000 (385), XK and BP	—	M or S
Pressure (requires Fluke 750PXX 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