725/725Ex/726 Multifunction Process Calibrators

FLUKE®

Fluke 726

Fluke 725

Fluke 725Ex

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 118 and 119

*Pressure pump required

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

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	M or S
100.00 mV DC		M or S
30.000V DC measure	M	M or S
20.000V DC Measure 10.000V DC Source **20.000V DC Source**		M or S
15 to 3200 Ohms **5 to 4000 Ohms**		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)		M or S
Pressure (requires Fluke 700 PXX Modules)	M	M used as S
Frequency; 10 kHz; **(15 kHz)**		M or S

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

Specifications

Unique 726 features are **in bold**

Function Measure or Source	Range or Type	Resolution	Accuracy	Notes
Voltage	0 to 100 mV 725: 0 to 10V (source) **0 to 20V (source)** 725/726: 0 to 30V (measure)	0.01 mV 0.001 V 0.001 V 0.001 V	**0.01%** 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	**0.01%** 0.02% of range + 1 LSD	
Ohms	15Ω to 3200Ω **5Ω to 4000Ω**	0.01Ω to 0.1Ω	0.10Ω to 1.0Ω **0.015%**	
Hz - CPM	2.0 to 1000 CPM 1 to 1100 Hz 1.0 to 10.0 kHz **10.0 to 15.0 kHz**	0.1 CPM 1 Hz 0.1 kHz **0.1 kHz**	±0.05% ±0.05% ±0.25% **±0.05%**	Source; 5V p-p **1V - 20 V p-p** 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	**Cu (10),** Ni 120 (672) Pt 100, 200, 500, 1000 (385) Pt 100 (3916), Pt 100 (3926)	**0.01 °C** **0.01 °F** 0.1 °C, 0.1 °F	**to 0.15 °C** 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: Three years

Included Accessories

Test Leads, AC172 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 130


TL220-1
See page 122


80PK-27
See page 128


TPAK
See page 132


700P27
See page 112