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# 725/725Ex/726 Multifunction Process Calibrators

FLUKE®

**New**



Fluke 726



Fluke 725



**New**



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

### 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                                                       |           |             |
| <b>20.000 V DC Source</b>                                               |           |             |
| 15 to 3200 Ohms                                                         |           | M or S      |
| <b>5 to 4000 Ohms</b>                                                   |           |             |
| 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; (15 KHz)                                             |           | 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<br>0 to 10V (source)<br><b>0 to 20 V (source)</b><br>0 to 30 V (measure)    | 0.01 mV<br>0.01V<br>0.01 V<br>0.01 V                    | <b>0.01 %</b> ,<br>0.02% Rdg + 2<br>LSD     | Max load, 1 mA                                                             |
| mA                         | 0 to 24                                                                                 | 0.001 mA                                                | <b>0.01 %</b> ; 0.02% Rdg<br>+ 2 LSD        | Max load,<br>725/726: 1000Ω<br>725Ex: 500Ω                                 |
| mV<br>(TC terminals)       | -10.00 mV to +75.00 mV                                                                  | 0.01 mV                                                 | <b>0.01 %</b><br>0.02% of range +<br>1 LSD  |                                                                            |
| Ohms                       | 15Ω to 3200Ω<br><b>5Ω to 4000Ω</b>                                                      | 0.01Ω to<br>0.1Ω                                        | 0.10Ω to 1.0Ω<br><b>0.015 %</b>             |                                                                            |
| Hz - CPM                   | 2.0 to 1000 CPM<br>1 to 1100 Hz<br>1.0 to 10.0 kHz<br><b>10.0 to 15.0 kHz</b>           | 0.1 CPM<br>1 Hz<br>0.1 kHz<br><b>0.1 kHz</b>            | ±0.05%<br>±0.05%<br>±0.25%<br><b>±0.5 %</b> | Source;<br>5V p-p<br><b>1 V - 20 V p-p</b><br>squarewave,<br>-0.1 V offset |
| Loop Supply                | 725/726: 24 V DC<br>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<br>to <b>0.2 °C</b>               |                                                                            |
| T/C                        | B, R, S, BP                                                                             | 1 °C, 1 °F                                              | to 1.7 °C<br>to <b>1.2 °C</b>               |                                                                            |
| RTDs                       | Cu (10), Ni120 (672)<br>Pt 100, 200, 500, 1000 (385)<br>Pt 100 (3916),<br>Pt 100 (3926) | <b>0.01 °C</b> ,<br><b>0.01 °F</b><br><br>0.1 °C, 0.1 F | to 0.15 °C<br><br>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

## Recommended Accessories

(Not for hazardous zones)



C125



TL220



80PK-27



TPAK



700P27

### 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

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