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## Fluke 725Ex Intrinsicly Safe Multi-function Process Calibrator



### The Simply Powerful Intrinsic Safe Calibration Tool

The new 725Ex Intrinsicly Safe Multi-function Process Calibrator is powerful yet easy-to-use. Combined with one of the (8) new Fluke-700PEX pressure modules, the 725Ex is able to calibrate almost any process instrument likely to need service in an area where explosive gasses may be present.

Measure and source mA, volts, temperature (RTDs and thermocouples), frequency, ohms, and pressure, using optional pressure modules.

Do you need to calibrate transmitters? The 725Ex split display lets you view input and output values simultaneously. For valve and I/P tests, you can source mA while measuring pressure. The 725Ex has auto-stepping and auto-ramping for remote testing, plus 25% stepping for fast linearity tests.

From the moment you pick it up, the Fluke 725Ex is ready to perform. Its simple controls, without menus, make operation easy. Its memory functions make set up fast. And its rugged design lets it work as hard as you do.



## Fluke 725Ex Intrinsically Safe Multi-function Process Calibrator

Measurement Accuracy	
<b>Voltage DC</b>	<b>30.000 V</b> 0.02%+ 2 counts (upper display) <b>30.000 V</b> 0.02%+ 2 counts (lower display) <b>100.00 mV</b> 0.02%+ 2 counts <b>-10.00 mV to 75.00 mV</b> 0.025 % + 1 count (via TC connector)
<b>Current DC</b>	<b>24.000 mA</b> 0.02%+ 2 counts
<b>Resistance</b>	<b>0.0 to 400.0 Ω</b> 0.1Ω (4-wire), 0.15Ω (2- and 3-wire) <b>401 to 1500 Ω</b> 0.5Ω (4-wire), 1Ω (2- and 3-wire) <b>1500 to 3200 Ω</b> 1Ω (4-wire), 1.5Ω (2- and 3-wire)
<b>Frequency</b>	<b>2.0 to 1000.0 CPM</b> 0.05 % + 1 count <b>1.0 to 1100.0 Hz</b> 0.05 % + 1 count <b>1.00 to 10.00 kHz</b> 0.05 % + 1 count <b>Sensitivity</b> 1 V peak-to-peak-minimum
<b>Pressure</b>	<b>Accuracy</b> from 0.025% of range using any of 8 intrinsic safe pressure modules. (for detailed specifications refer to pressure modules in options and accessories) Modules available for differential, gage, vacuum, absolute, dual and high pressure.

Source Accuracy	
<b>Voltage DC</b>	<b>100.00 mV</b> 0.02%+2 counts <b>10.000 V</b> 0.02%+2 counts <b>-10.00 mV to 75.00 mV</b> 0.025 % + 1 count (via TC connector)
<b>Current DC</b>	<b>24.000 mA (Source)</b> 0.02%+ 2 counts <b>24.000 mA (Simulate)</b> 0.02%+ 2 counts
<b>Resistance</b>	<b>15.0 to 400.0 Ω</b> 0.15 Ω (exc. current 0.15 to 0.5 mA), 0.1 Ω (exc. current 0.5 to 2 mA) <b>401 to 1500 Ω</b> 0.5 Ω (excitation current 0.05 to 0.8 mA) <b>1500 to 3200 Ω</b> 1 Ω (excitation current 0.05 to 0.4 mA)
<b>Frequency</b>	<b>2.0 to 1000.0 CPM</b> 0.05% <b>1.0 to 1100.0 Hz</b> 0.05% <b>1.00 to 10.00 kHz</b> 0.25%

Waveform: 5 V p-p squarewave, -0.1 V offset

### RTDs and Thermocouples

<b>Measure Accuracy:</b>	NI-120 0.2 °C PT-100 (385) 0.33 °C PT-100 (393) 0.3 °C PT-100 (JIS) 0.3 °C PT-200 (385) 0.2 °C PT-500 (385) 0.3 °C PT-1000 (385) 0.2 °C Resolution: 0.1 °C J: 0.7 °C K: 0.8 °C T: 0.8 °C E: 0.7 °C R: 1.8 °C S: 1.5 °C B: 1.4 °C L: 0.7 °C U: 0.75 °C N: 0.9 °C Resolution J, K, T, E, L, N, U: 0.1 °C, 0.1 °F B, R, S: 1 °C, 1 °F
<b>Source Accuracy:</b>	NI-120 0.2 °C PT-100 (385) 0.33 °C PT-100 (393) 0.3 °C PT-100 (JIS) 0.3 °C PT-200 (385) 0.2 °C PT-500 (385) 0.3 °C PT-1000 (385) 0.2 °C Resolution: 0.1 °C Note: Accuracy stated for 4-wire measurement. J: 0.7 °C K: 0.8 °C T: 0.8 °C E: 0.7 °C R: 1.4 °C S: 1.5 °C B: 1.4 °C L: 0.7 °C U: 0.75 °C N: 0.9 °C Resolution J, K, T, E, L, N, U: 0.1 °C, B, R, S: 1 °C

### Specifications

<b>Ramp Functions</b>	<b>Source functions:</b> Voltage, current, resistance, frequency, temperature <b>Ramps</b> Slow ramp, Fast ramp, 25% step-ramp
<b>Loop Power Function</b>	<b>Voltage:</b> 12 V <b>Accuracy:</b> 10%

	<b>Maximum current:</b> 22 mA, short circuit protected
<b>Step Functions</b>	<b>Source functions:</b> Voltage, current, resistance, frequency, temperature <b>Steps</b> 25% of range, 100% of range

### Safety Specifications

<b>Agency Approvals</b>	ATEX II 1 G EEx ia IIB 171°C I.S. Class I, Division 1 Groups
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### Mechanical & General Specifications

<b>Size</b>	130 x 236 x 61 mm 5.188" x 9.291" x 2.402"
<b>Weight</b>	0.85 kg (1.874 lbs.)
<b>Batteries</b>	4 AA alkaline batteries
<b>Battery Replacement</b>	Separate battery compartment, accessible without breaking calibration seal
<b>Side port connections</b>	Pressure module connector

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