

Pressure Calibrator

➤ **Fluke 729 Automatic Pressure Calibrator**

The Fluke 729 Automatic Pressure Calibrator has been designed specifically with process technicians in mind to simplify the pressure calibration process and provide faster, more accurate test results.

1. Fluke 729 Automatic Pressure Calibrator



➤ Key Features

- Automatic pressure generation and regulation to 300 psi
- Configure procedures for pressure transmitters and switches
- Measure, source, and simulate 4 to 20 mA signals
- Troubleshoot and calibrate HART smart transmitters
- Automatically document test results

• Specifications: Fluke 729 Automatic Pressure Calibrator

Pressure specification*

One-year specification 0.02% of full scale

Control specification 0.005% full scale minimum

*See manual for detailed specifications

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Model

729 30G	Psi range, resolution	-12.0000 to 30.0000 psi
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	Bar range, resolution	-0.82737 to 2.06842 bar
	kPa range, resolution	-82.737 to 206.843 kPa
	Comment	No wireless communication
729 150G	Psi range, resolution	-12.000 to 150.000 psi
	Bar range, resolution	-0.8273 to 10.3421 bar
	kPa range, resolution	-82.73 to 1034.21 kPa
	Comment	No wireless communication
729 300G	Psi range, resolution	-12.000 to 300.000 psi
	Bar range, resolution	-0.8273 to 20.6843 bar
	kPa range, resolution	-82.73 to 2068.43 kPa
	Comment	No wireless communication
729 30G FC	Psi range, resolution	-12.0000 to 30.0000 psi
	Bar range, resolution	-0.82737 to 2.06842 bar
	kPa range, resolution	-82.737 to 206.843 kPa

	Comment	Wireless communication for Fluke Connect
729 150G FC	Psi range, resolution	-12.000 to 150.000 psi
	Bar range, resolution	-0.8273 to 10.3421 bar
	kPa range, resolution	-82.73 to 1034.21 kPa
	Comment	Wireless communication for Fluke Connect
729 300G FC	Psi range, resolution	-12.000 to 300.000 psi
	Bar range, resolution	-0.8273 to 20.6843 bar
	kPa range, resolution	-82.73 to 2068.43 kPa
	Comment	Wireless communication for Fluke Connect
729CN 200K	Psi range, resolution	-12.0000 to 30.0000 psi
	Bar range, resolution	-0.82737 to 2.06842 bar
	kPa range, resolution	-82.737 to 206.843 kPa
	Comment	For China, no wireless communication
729CN 1M	Psi range, resolution	-12.000 to 150.000 psi

	Bar range, resolution	-0.8273 to 10.3421 bar
	kPa range, resolution	-82.73 to 1034.21 kPa
	Comment	For China, no wireless communication
729CN 2M	Psi range, resolution	-12.000 to 300.000 psi
	Bar range, resolution	-0.8273 to 20.6843 bar
	kPa range, resolution	-82.73 to 2068.43 kPa
	Comment	For China, no wireless communication
729CN 200K FC	Psi range, resolution	-12.0000 to 30.0000 psi
	Bar range, resolution	-0.82737 to 2.06842 bar
	kPa range, resolution	-82.737 to 206.843 kPa
	Comment	For China, wireless communication for Fluke Connect
729CN 1M FC	Psi range, resolution	-12.000 to 150.000 psi
	Bar range, resolution	-0.8273 to 10.3421 bar
	kPa range, resolution	-82.73 to 1034.21 kPa

	Comment	For China, wireless communication for Fluke Connect
729CN 2M FC	Psi range, resolution	-12.000 to 300.000 psi
	Bar range, resolution	-0.8273 to 20.6843 bar
	kPa range, resolution	-82.73 to 2068.43 kPa
	Comment	For China, wireless communication for Fluke Connect
729JP 200K	kPa range, resolution	-82.737 to 206.843 kPa
	Comment	For Japan, no wireless communication
729JP 1M	kPa range, resolution	-82.73 to 1034.21 kPa
	Comment	For Japan, 1 MPa range, no wireless communication
729JP 2M	kPa range, resolution	-82.73 to 2068.43 kPa
	Comment	For Japan, 2 MPa range, no wireless communication
729JP 200K FC	kPa range, resolution	-82.737 to 206.843 kPa
	Comment	For Japan, wireless communication for Fluke Connect
729JP 1M FC	kPa range, resolution	-82.73 to 1034.21 kPa
	Comment	For Japan, wireless communication for Fluke Connect

729JP 2M FC	kPa range, resolution	-82.73 to 2068.43 kPa
	Comment	For Japan, wireless communication for Fluke Connect

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Electrical specification

All specifications are valid to 110% of range, except 24 mA source and simulate which are valid to 100% of range.

Ranges	
mA measure, source and simulate	0 mA to 24 mA
Volts dc measure	0 V dc to 30 V dc
Resolution	
mA dc source, simulate and measure	1 μ A
Voltage dc measurement	1 mV
Accuracy	0.01% \pm 2 LSD all ranges (at 23 °C \pm 5 °C)
Stability	20 ppm of full scale /°C from -10 °C to +18 °C and 28 °C to +50 °C
mA simulate external voltage requirement	12 V dc to 30 V dc
Loop compliance voltage	24 V dc @ 20 mA

mA simulate external voltage requirement	12 V dc to 30 V dc
Temperature measurement only/100 Ω Pt(385) RTD	-50 °C to 150 °C (-58 °F to 302 °F)
Temperature resolution	0.01 °C (0.01 °F)
Temperature accuracy	± 0.1 °C (0.2 °F) ± 0.25 °C (± 0.45 °F) combined uncertainty when using 720 RTD probe (optional accessory)
Drive capability	1200 Ω without HART resistor, 950 Ω with internal HART resistor
Mechanical specification	
Size (HxWxL)	7 x 27.94 x 17.27 cm (2.75 x 11 x 6.8 in)
Weight	6.5 lbs., 2.95 kg
Ingress protection	IP54
Environmental specification	
Operating temperature	-10 °C to 50 °C for measurement, 0 °C to 50 °C for pressure control
Operating temperature with battery	-10 °C to 40 °C
Battery will only charge to 40 °C	
Storage temperature	-40 °C to 60 °C
Operating altitude	3000 m

Storage altitude	13000 m
Wireless (729 FC only)	
Radio frequency certification	FCC ID: T68-FBLE IC:6627A-FBLE
Wireless radio frequency range	2412 MHz to 2462 MHz