

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

Product overview: Fluke 729 Automatic Pressure Calibrator

Portable automatic pressure calibrator simplifies pressure calibration

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. Technicians know that calibrating pressure can be a time-consuming task, but the 729 makes it easier than ever with an internal electric pump that provides automatic pressure generation and regulation in an easy-to-use, rugged, portable package.

The ideal portable pressure calibrator, the 729 allows you to simply type in a target pressure, and the calibrator will automatically pump to the desired set-point. Then, internal fine adjustment control automatically stabilizes the pressure at the requested value.

The Fluke 729 can also automatically test multiple pressure test points and automatically document the results. Calibration is as easy as typing in the starting and ending pressure and the number of test points and tolerance level. The 729 does the rest.

Built-in HART communication capabilities enable HART transmitter mA adjustments, light HART configuration and the ability

to adjust to applied 0% and 100% values.

Upload and manage documented calibration results with [DPCTrack2™ Calibration Management Software](#), making it easy to manage your instrumentation, create scheduled tests and reports, and manage calibration data.

With three ranges to choose from, 30 psi (2 bar, 200 kPa), 150 psi (10 bar, 1 MPa) and 300 psi (20 bar, 2 MPa), Fluke 729 Automatic Pressure Calibrators are designed to perform when and where you need them.

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

Model		
729 30G	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	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

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	\pm 0.1 °C (0.2 °F) \pm 0.25 °C (\pm 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

Ordering information

**FLK-729 30G**

Fluke 729 Automatic Pressure Calibrator 30 psi, 2 bar range, no wireless communication

FLK-729 150G

Fluke 729 Automatic Pressure Calibrator 150 psi, 10 bar range, no wireless communication

FLK-729 300G

Fluke 729 Automatic Pressure Calibrator 300 psi, 20 bar range, no wireless communication

FLK-729 30G FC

Fluke 729 Automatic Pressure Calibrator 30 psi, 2 bar range, includes wireless communication for Fluke Connect

FLK-729 150G FC

Fluke 729 Automatic Pressure Calibrator 150 psi, 10 bar range, includes wireless communication for Fluke Connect

FLK-729 300G FC

Fluke 729 Automatic Pressure Calibrator 300 psi, 20 bar range, includes wireless communication for Fluke Connect

FLK-729CN 200K**FLK-729CN 1M****FLK-729CN 2M**

FLK-729CN 200K FC

FLK-729CN 1M FC

FLK-729CN 2M FC

FLK-729PLUS 2M

FLK-729PLUS 1M

FLK-729PLUS 200K

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