

TECHNICAL DATA

Fluke 718 Pressure Calibrator



Key features

- Pressure Source and mA Measurement to calibrate pressure devices
- Built-in pump for sourcing pressure to 300 PSI
- Easy-to-clean, field-serviceable, integrated pressure pump
- Built-in switch test for calibrating pressure switches
- Extend pressure capabilities by using Fluke 750P pressure modules

Product overview: Fluke 718 Pressure Calibrator

The complete solution to pressure calibration

The Fluke 718 Pressure Calibrator provides a total pressure calibration solution for transmitters, gauges, and switches. This compact pressure calibration solution is about a third of the size of comparable instruments and weighs just one kilogram (two pounds). The unique easy-to-clean pump helps protect it from damage and provides the ability to service the pump without disassembly, even in the field.

With an easy-to-use error % calculation you can make pass/fail decisions quickly. Meaning you can make decisions in the field without having to analyze the results later. The min/max/hold function also makes it easy to capture changing measurements for comparison or documentation. The integrated pressure switch test function, and best-in-class mA accuracy (0.015%) provide a high level of measurement confidence and even broader workload coverage.

Extend your pressure capabilities

The Fluke 718 Pressure Calibrator is available in 1, 30, 100, and 300 PSI ranges. It is also compatible with [Fluke 750P Series](#)

[Pressure Modules](#) so you are certain to find a model that will meet your calibration needs.

Related resources

- [Process calibration resource hub](#)
- [Glossary of pressure calibration terms](#)
- [Calibrating a HART Smart Pressure Transmitter](#)

Specifications: Fluke 718 Pressure Calibrator

Technical Specifications	
Fluke 718 Series	
Measure pressure	(Internal sensor)
Accuracy	0.025% full scale
Functions	Zero, min/max, hold, damp
Dry air, non-corrosives only	
Fluke 718 1G	
Range	-1 psi to +1 psi, -68.9 mbar to 68.9 mbar (-6.89 kPa to 6.89 kPa)
Resolution	0.0001 psi, 0.001 mbar, 0.0001 kPa
Over pressure	5x Full Scale
Functions	Zero, Min, Max, Hold, Damp
Fluke 718 30G	
Range	-12 psi to 30 psi, (-850 mbar to 2 bar, -85 to 206.84 kPa)
Resolution	0.001 psi, 0.1 mbar, 0.01 kPa
Over pressure	5x Full Scale
Functions	Zero, Min, Max, Hold, Damp
Fluke 718 100G	
Range	-12 psi to 100 psi, (-850 mbar to 7 bar, -85 to 689.48 kPa)
Resolution	0.01 psi, 0.1 mbar, 0.01 kPa
Over pressure	2x Full Scale
Functions	Zero, Min, Max, Hold, Damp
Fluke 718 300G	
Range	-12 psi to 300 psi, (-850 mbar to 20 bar, -85 to 2068.42 kPa)
Resolution	0.01 psi, 1 mbar, 0.1 kPa
Over pressure	375 psi 25 bar
Functions	Zero, Min, Max, Hold, Damp
Fluke 718 series via 700 Series Pressure Modules	
Range	29 pressure modules, 0 – 1 inH ₂ O to 10,000 psi, 2.5 mbar to 700 bar. Over pressure per pressure module specs

Resolution	Per pressure module specs
Accuracy	To 0.025% of full span, per pressure module specs
Functions	Zero, Min, Max, Hold, Damp
Media compatibility per pressure module specs	
Fluke 718 Series Via Built in Pump	
Range	-12 psi or -850 mbar to full scale Supported Pressure Units; psi, inH ₂ O (4°C), inH ₂ O (20°C), cmH ₂ O (4°C), cmH ₂ O (20°C), bar, mbar, kPa, inHg, mmHg, kg/cm
Loop power range	24 V DC
Accuracy	±10%
Drive; 20 mA into 1000 Ω for battery > 6.8 V; 700 Ω for battery 5.8 to 6.8 V	
mA Measure	
Range	0 mA to 24 mA
Resolution	0.001 mA
Accuracy	0.015% + 1 count
General Specifications	
Maximum voltage	30 volts (non-operating)
Temperature	-40°C to 60°C
Operating temperature	-10°C to 55°C
Relative humidity	95% (10°C to 30°C); 75% (30°C to 40°C); 45% (40°C to 50°C); 35% (50°C to 55°C)
Operating altitude	3,000 M max
Shock	1 M drop test
Vibration	Random, 2 g, 5 Hz – 500 Hz
Safety	CSA C22.2 No. 1010.1: 1992
EMC	EN50082-1: 1992 and EN55022: 1994 Class B
Size	216 x 94 x 66 mm (8.50 x 3.72 x 2.60 in)
Weight	992 g (35 oz)
Power, battery life	9V battery ANSI/NEDA 1604A or IEC 6LR619V alkaline; two batteries in 718
Battery life	4 to 20 hours typical, depending on functions used
Warranty	Three years (one year on pressure pump in Fluke 718)
Display	LCD, 5 digit pressure and current simultaneous
For use with non-corrosive gasses	

Ordering information



Fluke 718 1G

Fluke 718 1G Pressure Calibrator

-1 to 1 psi, (-68.9 mbar to 68.9 mbar, -6.89 to 6.89 kPa)

Includes:

- Protective Yellow Holster with test lead storage
- Instructions Sheet (14 languages)
- Test Leads and Alligator Clip
- Two 9V alkaline batteries
- NIST - Traceable calibration report and data

Fluke 718 30G

Fluke 718 30G Pressure Calibrator

-12 psi to 30 psi, (-850 mbar to 2 bar, -85 to 206.84 kPa)

Includes:

- Protective Yellow Holster with test lead storage
- Instructions Sheet (14 languages)
- Test Leads and Alligator Clip
- Two 9V alkaline batteries
- NIST - Traceable calibration report and data

Fluke 718 100G

Fluke 718 100G Pressure Calibrator

-12 psi to 100 psi, (-850 mbar to 7 bar, -85 to 689.48 kPa)

Includes:

- Protective Yellow Holster with test lead storage
 - Instructions Sheet (14 languages)
 - Test Leads and Alligator Clip
 - Two 9V alkaline batteries
 - NIST - Traceable calibration report and data
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Fluke 718 300G

Fluke 718 300G Pressure Calibrator

-12 psi to 300 psi, (-850 mbar to 20 bar, -85 to 2068.42 kPa)

Includes:

- Protective Yellow Holster with test lead storage
 - Instructions Sheet (14 languages)
 - Test Leads and Alligator Clip
 - Two 9V alkaline batteries
 - NIST - Traceable calibration report and data
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