

## TECHNICAL DATA

# Fluke 717 Pressure Calibrator



## Key features

- Measure pressure, 0.05% of full scale with internal sensor up to 5000 psi/345 bar sensor (5000G model)
- Measure mA with 0.015% accuracy and 0.001 mA resolution, while sourcing 24 V loop power
- Measure pressure to 10,000 psi/700 bar using one of 29 Fluke 700Pxx Pressure Modules
- 1/8 NPT female pressure fitting
- Compatible with non-corrosive Gases and liquids
- Select eleven different engineering units
- Zero, min, max, and hold functions
- Calibrate P/I instruments with simultaneous pressure and current measurement
- Pressure switch test function captures set, reset and Deadband values of a pressure switch
- Error % calculation of mA measurements for quick pass-fail decisions
- Long lasting battery life
- Holster features test lead storage
- Compatible with Toolpack magnetic hanging system
- New switch test

## Product overview: Fluke 717 Pressure Calibrator

The Fluke 717 Pressure Calibrator delivers outstanding performance, durability and reliability. The calibrator is compact, lightweight, and easy to carry. With a push button interface similar to the multifunction Fluke 750 Series Documenting Process Calibrators, the Fluke 717 Pressure Calibrator is easy to use. It is EMI tolerant, dust and splash resistant, and features a removable battery door for quick battery changes. The Fluke 717 Pressure Calibrator is compatible with Fluke 700Pxx differential, gauge and absolute pressure modules to increase functionality.

# Specifications: Fluke 717 Pressure Calibrator

Measurement Accuracy

Pressure	<b>717 Series</b>	
	Measure Pressure	(Internal sensor)
	Accuracy	0.05% full scale
	Functions	Zero, min, max, hold, damp
		Note gasses / liquids (non-corrosive)
	Fluke 717 1G	
	Range	-1 to 1 psi, (-68.9 mbar to 68.9 mbar, -83 to 6.89 kPa)
	Resolution	0.0001 psi, 0.001 mbar, 0.0001 kPa
	Over pressure	5 x full scale
	Fluke 717 30G	
	Range	-12 to 30 psi, (-850 mbar to 2 bar, -83 to 206.84 kPa)
	Resolution	0.001 psi, 0.1 mbar, 0.01 kPa
	Over Pressure	2 x full scale
	Fluke 717 100G	
	Range	-12 to 100 psi, (-850 mbar to 7 bar, -83 to 689.48 kPa)
	Resolution	0.01 psi, 0.1 mbar, 0.01 kPa
	Over pressure	2 x full scale
	Fluke 717 300G	
	Range	-12 to 300 psi, (-850 mbar to 20 bar, -83 to 2068.42 kPa)
	Resolution	0.01 psi, 1 mbar, 0.1 kPa
	Over pressure	375 psi, 25 bar
	Fluke 717 500G	
	Range	0 to 500 psi, (0 mbar to 34,7 bar, 0 to 3447.38 kPa)
	Resolution	0.01 psi, 1 mbar, 0.1 kPa
	Over pressure	2 x full scale
	Fluke 717 1000G	
	Range	0 to 1000 psi, (0 mbar to 69 bar, 0 to 6894.76 kPa)
	Resolution	0.1 psi, 1 mbar, 0.1 kPa
	Over pressure	2 x full scale
	Fluke 717 1500G	
	Range	0 to 1500 psi, (0 bar to 103.4 bar, 0 to 10342 kPa)
	Resolution	0.1 psi, 0.01 mbar, 1 kPa
	Over pressure	2 x full scale
	Fluke 717 3000G	
	Range	0 to 3000 psi, (0 bar to 207 bar, 0 to 20684.27 kPa)
Resolution	0.1 psi, 0.01 bar, 1 kPa	
Over pressure	2 x full scale	
Fluke 717 5000G		
Range	0 to 5000 psi, (0 bar to 345 bar, 0 to 34474 kPa)	
Resolution	0.1 psi, 0.01 bar, 1 kPa	
Over pressure	2 x full scale	
Fluke 717 Series with Pressure Modules		
Measure pressure	(Via pressure module connector using optional Pressure Modules)	
Range	29 pressure modules, 0-1 inH <sub>2</sub> O to 10,000 psi, 2.5 mbar to 700 bar ranges. Over pressure per pressure module specs	
Resolution	Per pressure module specs	
Accuracy	Per pressure module specs	
Functions	Zero, min, max, hold, damp	

Current	<b>Range</b>	0 to 24 mA (-25% to 125%)
	Resolution	0.001 mA
	Accuracy	0.015% + 2 counts
<b>Specifications</b>		
Loop power	<b>Range</b>	24 V DC
	Accuracy	±10%
		Drive; 20 mA into 1000 ohms for battery > 6.8 V; 700 W for battery 5.8 to 6.8 V
Display	Clear 5 digit LCD	
<b>Environmental Specifications</b>		
Operating temperature	-10°C to 55°C	
Storage temperature	-40°C to 60°C	
Humidity (without condensation)	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	
<b>Safety Specifications</b>		
Safety	CSA C22.2 No. 1010.11992	
<b>Mechanical and General Specifications</b>		
Size (L x W x H)	201 x 98 x 52 mm (7.93 x 3.86 x 2.06 in)	
Weight	22 oz, approximately 600 G with holster	
Warranty	3 years	
Shock and vibration	Random, 2 G, 5-500 Hz	
	1 m drop test	
Battery type	Single 9 V battery ANSI/NEDA 1604A or IEC 6LR619V alkaline	

## Ordering information



### Fluke 717 1G

Fluke 717 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)
- single 9V alkaline battery
- Test Leads and Alligator Clips
- NIST- traceable calibration report and data

### Fluke 717 15G

Fluke 717 15G Pressure Calibrator

12 to 15 psi (-850 mbar to 1 bar, -85 to 103 kPa)

### Fluke 717 30G

Fluke 717 30G Pressure Calibrator

12 to 30 psi (-850 mbar to 2 bar, -85 to 207 kPa)

### Fluke 717 100G

Fluke 717 100G Pressure Calibrator

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

### Fluke 717 300G

Fluke 717 300G Pressure Calibrator

12 to 300 psi, (-850 mbar to 20 bar, -85 to 2068.4 kPa )

### Fluke 717 500G

Fluke 717 500G Pressure Calibrator  
0 to 500 psi, (0 mbar to 34.7 bar, 0 to 3447.4 kPa )

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### Fluke 717 1000G

Fluke 717 1000G Pressure Calibrator  
0 to 1000 psi, (0 mbar to 69 bar, 0 to 6894.8 kPa )

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### Fluke 717 1500G

Fluke 717 1500G Pressure Calibrator  
0 to 1500 psi, (0 bar to 103.4 bar, 0 to 10342 kPa )

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### Fluke 717 3000G

Fluke 717 3000G Pressure Calibrator  
0 to 3000 psi, (0 bar to 207 bar, 0 to 20684 kPa)

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### Fluke 717 5000G

Fluke 717 5000G Pressure Calibrator  
0 to 5000 psi, (0 bar to 345 bar, 0 to 34474 kPa)

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### Fluke 717 10,000G

Fluke 717 10,000G Pressure Calibrator  
0 - 10,000 psi (0 to 690 bar, 0 to 69,000 kPa)

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Optional accessories	Description
<b>Fluke 700 PMP Pressure Pump</b>	The Fluke 700PMP is a hand-operated pressure pump to provide pressures up to 150 psi/1000 kPa. Output fitting is 1/8 FNPT.
<b>Fluke 700PTP-1 Pneumatic Test Pump</b>	The Fluke-700PTP-1 pneumatic test pump is capable of supplying pressures up to 600 psi, 40 bar.
<b>Fluke 700HTP-2 Hydraulic Test Pump</b>	The Fluke 700HTP-2 is a hand operated hydraulic pressure pump designed to generate calibration pressures up to 10,000 psi/690 bar. Designed for use with Fluke-700 series high pressure modules such as the Fluke-700P09, 700P29, 700P30 and 700P31.
<b>Fluke 71X Hose Kit Accessory</b>	Translucent accessory hoses allow the technician to easily identify if there is oil or other contaminants in the hose before they get into your calibrator.



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11/2022

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