

TECHNICAL DATA

Fluke 700G Pressure Gauge Calibrator



Key features

- Precision pressure gauge calibrators designed for fast, accurate test results
- Make precise pressure measurements from ± 10 inH₂O/20 mbar to 10,000 psi/690 bar
- Highly accurate; 0.05% measurement uncertainty for 1 year
- Easily view in most environments with bright backlit display
- Take your gauge anywhere with a rugged protective holster

Product overview: Fluke 700G Pressure Gauge Calibrator

Designed for field pressure calibration, the Fluke 700G Series Pressure Gauge Calibrators give you the performance and durability that you have come to expect in Fluke pressure calibration products while being simple and easy-to-use. Whether you're looking to connect to either a hydraulic or pneumatic test pump this series are designed to be a complete calibration solution with:

- 23 pressure gauges from ± 10 inH₂O/20 mbar to 10,000 psi/690 bar

With a standard accuracy of 0.05% of full scale and reference class gauges with accuracies of 0.04% you're sure to find a gauge that's the perfect fit for your application.

Pressure gauge data logging

The Fluke 700G series gauges and pump kits are designed for the pressure testing professional working on process pressure instrumentation. The pressure ranges of the 700G series gauges cover the ranges needed for process pressure calibration needs including Gage pressures ± 10 inH₂O (± 25 mbar) to 10,000 psi (0-690 bar), absolute pressures from 0 to 15 psia (0-1 bar) to 0-300 psi (0-20 bar) and reference class gauges from 0 to 30 PSI (0-2 bar) to 10,000 psi (0-690 bar).

- Standard accuracy to 0.05% of full scale
- Reference class gauges deliver 0.04% of reading measurement accuracy
- Pressure gauge data logging for more than 8,493 pressure measurements to memory and uploads to a PC (with [700G/TRACK software](#))

Rugged design with intrinsically safe certification

- Rugged sealed IP-67 enclosure with included protective holster
- Allows you to work safely in classified areas known to include explosive gasses:
 - CSA: Class 1, Div2, Groups A-D rating
 - ATEX: II 3 G Ex ic IIB T6 Gc
- Standard 3-year warranty

Easy to use pressure solution

Pressure gauge calibrators are the easiest to use of all pressure calibration tools. Power them up, connect to the pressure device you want to measure and see your measurement, it's that easy. When used with a [Fluke-700PTPK](#) pneumatic or [700HTPK](#) hydraulic pump kit the 700G becomes a complete pressure sourcing and measurement solution. The [700PTPK2](#) and [700HTPK2](#) premium pump kits offer easy connectivity to the gauge and device under test providing "no tools required" connections.

- Complete pressure calibration solution when gauges are paired with special pump kits
 - Calibrate to 600 psi (20 bar) with the 700PTPK or 700PTPK2 pneumatic pump kit.
 - Calibrate to 10,000 psi (690 bar) with the 700HTPK or 700HTPK2 hydraulic pump kit.

Specifications: Fluke 700G Pressure Gauge Calibrator

700R Ranges: Temperature Compensation 0 e °C to 50 °C (32 °F to 122 °F) to rated accuracy.

For temperatures from -10 °C to 0 °C and 50 °C to 55 °C, add .005% FS/ °C

Model	Range	Resolution	Accuracy	Burst Pressure
Fluke-700G01	-10 to +10 inH ₂ O -20 mbar to 20 mbar	0.001 inH ₂ O, 0.001 mbar	Positive pressure ±0.1% of range, Vacuum ±0.1% of range	3 psi, 210 mbar
Fluke-700G02	-1 to +1 psi, -70 mbar to 70 mbar	0.0001 psi, 0.001 mbar	Positive pressure ±0.1% of range, Vacuum ±0.1% of range	5 psi, 350 mbar
Fluke-700G04	-14 to 15 psi, -0.97 to 1 bar	0.001 psi, 0.0001 bar	Positive pressure ±0.05% FS Vacuum ±0.1% FS	60 psi, 4 bar
Fluke-700G05	-14 to 30 psi, -0.97 to 2 bar	0.001 psi, 0.0001 bar	Positive pressure ±0.05% FS Vacuum ±0.1% FS	120 psi, 8 bar
Fluke-700G06	-12 to 100 psi, -0.83 to 6.9 bar	0.01 psi, 0.0001 bar	Positive pressure ±0.05% FS Vacuum ±0.1% FS	400 psi, 26 bar
Fluke-700G27	-12 to 300 psi, -0.83 to 20 bar	0.01 psi, 0.001 bar	Positive pressure ±0.05% FS Vacuum ±0.1% FS	1200 psi, 80 bar
Fluke-700G07	-12 to 500 psi, -0.83 to 34 bar	0.01 psi, 0.001 bar	Positive pressure ±0.05% FS Vacuum ±0.1% FS	2000 psi, 138 bar
Fluke-700G08	-14 to 1000 psi, -0.97 to 69 bar	0.1 psi, 0.001 bar	Positive pressure ±0.05% FS Vacuum ±0.1% FS	4000 psi, 266 bar
Fluke-700G10	-14 to 2000 psi, -0.97 bar to 140 bar	0.1 psi, 0.01 bar	Positive pressure ±0.05% FS Vacuum ±0.1% FS	8000 psi, 550 bar
Fluke-700G29	-14 to 3000 psi, -0.97 to 200 bar	0.1 psi, 0.01 bar	Positive pressure ±0.05% FS Vacuum ±0.1% FS	10000 psi, 690 bar

Model	Range	Resolution	Accuracy	Burst Pressure
Fluke-700G30	-14 to 5000 psi, -0.97 to 340 bar	0.1 psi, 0.01 bar	Positive pressure $\pm 0.05\%$ FS Vacuum $\pm 0.1\%$ FS	10000 psi, 690 bar
Fluke-700G31	-14 to 10000 psi, -0.97 to 690 bar	1 psi, 0.01 bar	Positive pressure $\pm 0.05\%$ FS Vacuum $\pm 0.1\%$ FS	20000 psi, 1035 bar
Fluke-700GA4	0 to 15 psia, 0 to 1 bar absolute	0.001 psi, 0.0001 bar	$\pm 0.05\%$ of range	60 psi, 4 bar
Fluke-700GA5	0 to 30 psia 0 to 2 bar absolute	0.001 psi, 0.0001 bar	$\pm 0.05\%$ of range	120 psi, 8 bar
Fluke-700GA6	0 to 100 psia, 0 to 6.9 bar absolute	0.01 psi, 0.0001 bar	$\pm 0.05\%$ of range	400 psi, 27 bar
Fluke-700GA27	0 to 300 psia, 0 to 20 bar absolute	0.01 psi, 0.001 bar	$\pm 0.05\%$ of range	1200 psi, 80 bar
Fluke-700RG05	-14 to +30 psi, -0.97 to +2 bar	0.001 psi, 0.0001 bar	Positive pressure, $\pm 0.04\%$ of reading + 0.01% of range, Vacuum $\pm 0.05\%$ of range	90 psi, 6 bar
Fluke-700RG06	-12 to 100 psi, -0.83 to 6.9 bar	0.01 psi, 0.0001 bar	Positive pressure, $\pm 0.04\%$ of reading + 0.01% of range, Vacuum $\pm 0.1\%$ of range	400 psi, 27 bar
Fluke-700RG07	-12 to 500 psi, -0.83 to 34	0.01 psi, 0.001 bar	Positive pressure, $\pm 0.04\%$ of reading + 0.01% of range, Vacuum $\pm 0.1\%$ of range	2000 psi, 138 bar
Fluke-700RG08	-14 to 1000 psi, -0.97 to 69 bar	0.1 psi, 0.001 bar	Positive pressure, $\pm 0.04\%$ of reading + 0.01% of range, Vacuum $\pm 0.1\%$ of range	4000 psi, 275 bar
Fluke-700RG29	-14 to 3000 psi, -0.97 to 200 bar	0.1 psi, 0.01 bar	Positive pressure, $\pm 0.04\%$ of reading + 0.01% of range, Vacuum $\pm 0.1\%$ of range	10000 psi, 690 bar
Fluke-700RG30	-14 to 5000 psi, -0.97 to 340 bar	0.1 psi, 0.01 bar	Positive pressure, $\pm 0.04\%$ of reading + 0.01% of range, Vacuum $\pm 0.1\%$ of range	15000 psi, 1035 bar
Fluke-700RG31	-14 to 10000 psi, -0.97 to 690 bar	1 psi, 0.01 bar	Positive pressure, $\pm 0.04\%$ of reading + 0.01% of range, Vacuum $\pm 0.1\%$ of range	20000 psi, 1380 bar

Media compatibility

- 10 inH₂O, 1, 15, 30 psi: any clean dry non-corrosive gas
- 100, 300, 500, 1000 psi: any liquids or gases compatible with 316 stainless steel and above 1000 psi: any non-flammable, non-toxic, non-explosive, non-oxidizing liquid or gas compatible with 316 stainless steel.

Mechanical Specifications

Dimensions (H x W x D)	12.7 x 11.4 x 3.7 cm (5 x 4.5 x 1.5 in)
Pressure connection	¼ in NPT Male
Housing/Weight	Cast ZNAL 0.56 kg (1.22 lb) with holster
Display	5-1/2 digits, 16.53 mm (0.65 in) high 20-segment bar graph, 0 to 100%
Power	Three (3) AA alkaline batteries
Battery life	1,500 hours without backlight (continuous on), 2,000 hours at slow sample rate

Ordering information



Fluke 700G01

FLUKE-700G01 PRESSURE GAUGE, -10 TO 10 IN H₂O

Includes:

- Manual on CD-ROM in 14 languages
- Traceable certificate of calibration
- 1/4" NPT to 1/4" ISO adapter

Fluke 700G02

FLUKE-700G02 PRESSURE GAUGE, 30 IN H₂O

Includes:

- Manual on CD-ROM in 14 languages
- Traceable certificate of calibration
- 1/4" NPT to 1/4" ISO adapter

Fluke 700G04

FLUKE-700G04 PRESSURE GAUGE, 15 PSIG

Includes:

- Manual on CD-ROM in 14 languages

- Traceable certificate of calibration
 - 1/4" NPT to 1/4" ISO adapter
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Fluke 700G05

FLUKE-700G05 PRESSURE GAUGE, 30 PSIG

Includes:

- Manual on CD-ROM in 14 languages
 - Traceable certificate of calibration
 - 1/4" NPT to 1/4" ISO adapter
-

Fluke 700G06

FLUKE-700G06 PRESSURE GAUGE, 100 PSIG

Includes:

- Manual on CD-ROM in 14 languages
 - Traceable certificate of calibration
 - 1/4" NPT to 1/4" ISO adapter
-

Fluke 700G07

FLUKE-700G07 PRESSURE GAUGE, 500 PSIG

Includes:

- Manual on CD-ROM in 14 languages
 - Traceable certificate of calibration
 - 1/4" NPT to 1/4" ISO adapter
-

Fluke 700G08

FLUKE-700G08 PRESSURE GAUGE, 1,000 PSIG

Includes:

- Manual on CD-ROM in 14 languages
 - Traceable certificate of calibration
 - 1/4" NPT to 1/4" ISO adapter
-

Fluke 700G10

FLUKE-700G10 PRESSURE GAUGE, 2000 PSIG

Includes:

- Manual on CD-ROM in 14 languages
 - Traceable certificate of calibration
 - 1/4" NPT to 1/4" ISO adapter
-

Fluke 700G27

FLUKE-700G27 PRESSURE GAUGE, 300 PSIG

Includes:

- Manual on CD-ROM in 14 languages
 - Traceable certificate of calibration
 - 1/4" NPT to 1/4" ISO adapter
-

Fluke 700G29

FLUKE-700G29 PRESSURE GAUGE, 3,000 PSIG

Includes:

- Manual on CD-ROM in 14 languages
 - Traceable certificate of calibration
 - 1/4" NPT to 1/4" ISO adapter
-

Fluke 700G30

FLUKE-700G30 PRESSURE GAUGE, 5,000 PSIG

Includes:

- Manual on CD-ROM in 14 languages
 - Traceable certificate of calibration
 - 1/4" NPT to 1/4" ISO adapter
-

Fluke 700G31

FLUKE-700G31 PRESSURE GAUGE, 10,000 PSIG

Includes:

- Manual on CD-ROM in 14 languages
 - Traceable certificate of calibration
 - 1/4" NPT to 1/4" ISO adapter
-

Fluke 700GA4

FLUKE-700GA4 PRESSURE GAUGE, 15 PSIA

Includes:

- Manual on CD-ROM in 14 languages
 - Traceable certificate of calibration
 - 1/4" NPT to 1/4" ISO adapter
-

Fluke 700GA5

FLUKE-700GA5 PRESSURE GAUGE, 30 PSIA

Includes:

- Manual on CD-ROM in 14 languages
 - Traceable certificate of calibration
 - 1/4" NPT to 1/4" ISO adapter
-

Fluke 700GA6

FLUKE-700GA6 PRESSURE GAUGE, 100 PSIA

Includes:

- Manual on CD-ROM in 14 languages
 - Traceable certificate of calibration
 - 1/4" NPT to 1/4" ISO adapter
-

Fluke 700GA27

FLUKE-700GA27 PRESSURE GAUGE, 300 PSIA

Includes:

- Manual on CD-ROM in 14 languages
 - Traceable certificate of calibration
 - 1/4" NPT to 1/4" ISO adapter
-

Fluke 700RG05

FLUKE-700RG05 PRESSURE GAUGE, REFERENCE, -14 TO 30 PSIG

Includes:

- Manual on CD-ROM in 14 languages
 - Traceable certificate of calibration
 - 1/4" NPT to 1/4" ISO adapter
-

Fluke 700RG06

FLUKE-700RG06 PRESSURE GAUGE, REFERENCE, -12 TO 100 PSIG

Includes:

- Manual on CD-ROM in 14 languages
 - Traceable certificate of calibration
 - 1/4" NPT to 1/4" ISO adapter
-

Fluke 700RG07

FLUKE-700RG07 PRESSURE GAUGE, REFERENCE, -12 TO 500 PSIG

Includes:

- Manual on CD-ROM in 14 languages
 - Traceable certificate of calibration
 - 1/4" NPT to 1/4" ISO adapter
-

Fluke 700RG08

FLUKE-700RG08 PRESSURE GAUGE, REFERENCE, 1000 PSIG

Includes:

- Manual on CD-ROM in 14 languages
 - Traceable certificate of calibration
 - 1/4" NPT to 1/4" ISO adapter
-

Fluke 700RG29

FLUKE-700RG29 PRESSURE GAUGE, REFERENCE, 3000 PSIG

Includes:

- Manual on CD-ROM in 14 languages
 - Traceable certificate of calibration
 - 1/4" NPT to 1/4" ISO adapter
-

Fluke 700RG30

FLUKE-700RG30 PRESSURE GAUGE, REFERENCE, 5000 PSIG

Includes:

- Manual on CD-ROM in 14 languages
 - Traceable certificate of calibration
 - 1/4" NPT to 1/4" ISO adapter
-

Fluke 700RG31

FLUKE-700RG31 PRESSURE GAUGE, REFERENCE, 10000 PSIG

Includes:

- Manual on CD-ROM in 14 languages
 - Traceable certificate of calibration
 - 1/4" NPT to 1/4" ISO adapter
-



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- Move away from clipboards, notebooks and multiple spreadsheets with a wireless one-step measurement transfer.
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