

## Fluke 700G Series Precision Pressure Test Gauges

### Technical Data



#### Features

- Precision pressure measurement from  $\pm 10$  inH<sub>2</sub>O/20 mbar to 10,000 psi/690 bar
- Absolute pressure measurement ranges 15, 30, 100, 300 psia
- Accuracy to 0.05 % of full scale
- Reference class gauge accuracies to 0.04 % of reading
- Easy to use, rugged construction for reliable performance
- CSA; Class 1, Div 2, Groups A-D rating
- ATEX rating: II 3 G Ex nA IIB T6
- Combine with the 700PTPK or 700HTPK pump kits for a complete pressure testing solution for up to 600 psi (40 bar) with the PTP-1 pneumatic pump and up to 10,000 psi (690 bar) with the HTP-2 hydraulic pump
- Log up to 8,493 pressure measurements to memory (requires 700G/TRACK software)
- Three-year warranty

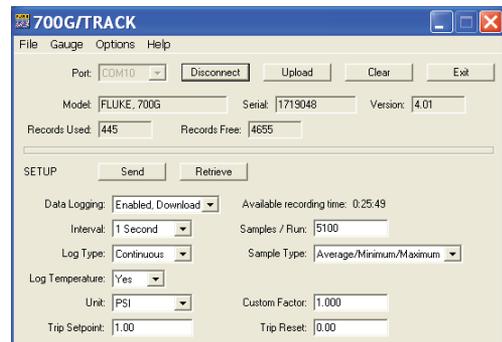


#### Fluke-700PTPK2 Premium Pneumatic Test Kit

- Combine with any Fluke-700G Series Gauge, 1,000 psi (69 bar) or less, to make a complete pressure testing kit
- Generate pressure up to 600 psi, 40 bar with the 700PTP-1 test pump
- Connect the 700G Series gauge directly to the included PTP-1 hand pump with premium no tools required adapter
- Includes 700TTH 5K premium no tools required transmitter test hose kit and adapters for connecting to the pressure device to be tested
- Hard case protects pump and gauge and allows gauge to remain connected to the pump

#### Fluke-700HTPK2 Pre- mium Hydraulic Test Kit

- Combine with any Fluke-700G Series Gauge, 1,000 psi (69 bar) or greater, to make a complete pressure testing kit
- Generate pressure up to 10,000 psi, 690 bar with the 700HTP-2 test pump
- Connect the 700G Series gauge directly to the HTP-2 hand pump with premium no tools required adapter
- Includes 700TTH 10K premium no tools required transmitter test hose kit and adapters for connecting to the pressure device to be tested
- Hard case protects pump and gauge and allows gauge to remain connected to the pump



#### 700G/TRACK Logging Software

- Use with 700G Series gauges to perform real time data logging to a PC
- Download logging configurations to the 700G Series gauges for a remote logging event
- Configure logging event reading rate, duration and measurement units
- Upload measurements logged remotely and display or export measurements
- Includes communication cable for connection to a PC



**Fluke-700PTPK  
Pneumatic Test Kit**

- Combine with any Fluke-700G Series Gauge, 1,000 psi (69 bar) or less, to make a complete pressure testing kit
- Generate pressure up to 600 psi, 40 bar with the 700PTP-1 test pump
- Connect the 700G Series gauge directly to the included PTP-1 hand pump
- Includes hoses and adapters for connecting to the pressure device to be tested
- Hard case protects pump and gauge and allows gauge to remain connected to the pump

**Fluke-700HTPK Hydraulic  
Test Kit**

- Combine with any Fluke-700G Series Gauge, 1,000 psi (69 bar) range or greater, to make a complete pressure testing kit
- Generate pressure up to 10,000 psi, 690 bar with the included 700HTP-2 test pump
- Connect the 700G Series gauge directly to the HTP-2 hand pump
- Includes 700HTH-1 hose kit and adapters for connecting to the pressure device to be tested
- Hard case protects pump and gauge and allows gauge to remain connected to the pump



**700M20TH Premium  
Transmitter Test Hose Kit**

- 5,000 psi rating
- Includes 1/8" NPT connection for permanent mount to a calibrator or test pump
- No Tools Required Male connector for connection to Female M20 connections



**700TTH5K Premium  
Transmitter Test Hose Kit**

- 5,000 psi rating
- Included 1/8" NPT connection for permanent mount to a calibrator or test pump
- No Tools Required 1/4" NPT male connector for connection to a transmitter



**700TTH10K Premium  
Transmitter Test Hose Kit**

- 10,000 psi rating
- Included 1/8" NPT connection for permanent mount to a calibrator or test pump
- No tools required 1/4" NPT male connector for connection to a transmitter



**700MTH Premium  
Transmitter Test Hose Kit**

- 5,000 psi rating
- Includes 1/8" NPT connection for permanent mount to a calibrator or test pump
- No Tools Required Male connector for connection to 1/4" female metric/BSP

## Specifications

Model	Range	Resolution	Accuracy	Burst pressure
Fluke-700G01	-10 to +10 inH <sub>2</sub> O -20 mbar to 20 mbar	0.0001 inH <sub>2</sub> 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		5 psi 350 mbar
Fluke-700G04	-14 psi to 15 psi -.97 bar 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 psi to 30 psi -.97 bar to 2 bar	0.001 psi 0.0001 bar		120 psi 8 bar
Fluke-700G06	-12 psi to 100 psi -.83 bar to 6.9 bar	0.01 psi 0.0001 bar		400 psi 26 bar
Fluke-700G27	-12 psi to 300 psi -.83 bar to 20 bar	0.01 psi 0.001 bar		1200 psi 80 bar
Fluke-700G07	-12 psi to 500 psi -.83 bar to 34 bar	0.01 psi 0.001 bar		2000 psi 138 bar
Fluke-700G08	-14 psi to 1000 psi -.97 bar to 69 bar	0.1 psi 0.001 bar		4000 psi 266 bar
Fluke-700G10	-14 to 2000 psi -.97 bar to 140 bar	0.1 psi 0.01 bar		8000 psi 550 bar
Fluke-700G29	-14 psi to 3000 psi -.97 bar to 200 bar	0.1 psi 0.01 bar		10000 psi 690 bar
Fluke-700G30	-14 psi to 5000 psi -.97 bar to 340 bar	0.1 psi 0.01 bar		10000 psi 690 bar
Fluke-700G31	-14 psi to 10000 psi -.97 bar to 690 bar	1 psi 0.01 bar		20000 psi 1035 bar
Fluke-700GA4	0 to 15 psia 0 to 1 bar absolute	0.001 psi 0.0001 bar		± 0.05 % of range
Fluke-700GA5	0 to 30 psia 0 to 2 bar absolute	0.001 psi 0.0001 bar	120 psi 8 bar	
Fluke-700GA6	0 to 100 psia 0 to 6.9 bar absolute	0.01 psi 0.0001 bar	400 psi 27 bar	
Fluke-700GA27	0 to 300 psia 0 to 20 bar absolute	0.01 psi 0.001 bar	1200 psi 80 bar	
Fluke-700RG05	-14 to +30 psi -0.97 to +2 bar	0.001 psi 0.0001 bar	Positive pressure, ± 0.04 % of reading +.01 % of range, Vacuum ± 0.05 % of range	90 psi 6 bar
Fluke-700RG06	-12 to 100 psi -0.83 to 6.9 bar	0.001 psi 0.0001 bar	Positive pressure, ± 0.04 % of reading +.01 % of range, Vacuum ± 0.1 % of range	400 psi 27 bar
Fluke-700RG07	-12 to 500 psi -0.83 to 34	0.01 psi 0.001 bar		2000 psi 138 bar
Fluke-700RG08	-14 to 1000 psi -0.97 to 69 bar	0.01 psi 0.001 bar		4000 psi 275 bar
Fluke-700RG29	-14 to 3000 psi -0.97 to 200 bar	0.1 psi 0.01 bar		10000 psi 690 bar
Fluke-700RG30	-14 to 5000 psi -0.97 to 340 bar	0.1 psi 0.01 bar		15000 psi 1035 bar
Fluke-700RG31	-14 to 10000 psi -0.97 to 690 bar	1 psi 0.01 bar		20000 psi 1380 bar
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				
<b>Media compatibility</b>				
<ul style="list-style-type: none"> <li>• 10 inH<sub>2</sub>O, 1, 15, 30 psi: any clean dry non-corrosive gas</li> <li>• 100 psi and above: any liquids or gases compatible with 316 stainless steel.</li> </ul>				

<b>Mechanical specifications</b>	
Dimensions (HxWxD)	12.7 cm x 11.4 cm x 3.7 cm (5 in x 4.5 in x 1.5 in)
Pressure connection	¼ in NPT Male
Housing/Weight	Cast ZNAl 0.56 kg (1.22 lb) with holster
Display	5 ½ digits, 16.53 mm (0.65 in) high 20-segment bar graph, 0 to 100 %
Power	Three AA alkaline batteries
Battery life	1,500 hours without backlight (continuous on), 2,000 hours at slow sample rate

## Ordering information

<b>Fluke-700G01</b>	Pressure Gauge, ±10 inH <sub>2</sub> O WC (0.4 PSIG)
<b>Fluke-700G02</b>	Pressure Gauge, ±30 inH <sub>2</sub> O WC (1 PSIG)
<b>Fluke-700G04</b>	Pressure Gauge, ± 15 PSIG
<b>Fluke-700G05</b>	Pressure Gauge, 30 PSIG
<b>Fluke-700G06</b>	Pressure Gauge, 100 PSIG
<b>Fluke-700G27</b>	Pressure Gauge, 300 PSIG
<b>Fluke-700G07</b>	Pressure Gauge, 500 PSIG
<b>Fluke-700G08</b>	Pressure Gauge, 1000 PSIG
<b>Fluke-700G10</b>	Pressure Gauge, 2000 PSIG
<b>Fluke-700G29</b>	Pressure Gauge, 3000 PSIG
<b>Fluke-700G30</b>	Pressure Gauge, 5000 PSIG
<b>Fluke-700G31</b>	Pressure Gauge, 10000 PSIG
<b>Fluke-700GA4</b>	Pressure Gauge, 15 PSIA
<b>Fluke-700GA5</b>	Pressure Gauge, 30 PSIA
<b>Fluke-700GA6</b>	Pressure Gauge, 100 PSIA
<b>Fluke-700GA27</b>	Pressure Gauge, 300 PSIA
<b>Fluke-700RG05</b>	Pressure Gauge, Reference, 30 PSIG
<b>Fluke-700RG06</b>	Pressure Gauge, Reference, 100 PSIG
<b>Fluke-700RG07</b>	Pressure Gauge, Reference, 500 PSIG
<b>Fluke-700RG08</b>	Pressure Gauge, Reference, 1000 PSIG
<b>Fluke-700RG29</b>	Pressure Gauge, Reference, 3000 PSIG
<b>Fluke-700RG30</b>	Pressure Gauge, Reference, 5000 PSIG
<b>Fluke-700RG31</b>	Pressure Gauge, Reference, 10000 PSIG
<b>700G/TRACK</b>	Data logging software and cable
<b>Fluke-700HTPK</b>	Hydraulic test pump kit, 0 to 10000 PSI/690 BAR
<b>Fluke-700PTPK</b>	Pneumatic test pump kit, 0 to 600 PSI/40 BAR
<b>Fluke-700PTPK2</b>	Premium pneumatic test pump kit, -12 to 600 PSI
<b>Fluke-700HTPK2</b>	Premium hydraulic test pump kit, 0 to 10,000 PSI
<b>Fluke-700TTH5K</b>	Premium pressure transmitter test hose, 5,000 PSI
<b>Fluke-700TTH10K</b>	Premium pressure transmitter test hose kit, 10,000 PSI
<b>Fluke-700M20TH</b>	Premium M20 pressure test hose kit, 5,000 PSI
<b>Fluke-700MTH</b>	Premium metric pressure test hose kit, 5,000 PSI

### Included accessories (Gauges)

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

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