**Fluke 700G Series**

**Precision Pressure Test Gauges**

**Technical Data**

**Features**
- Precision pressure measurement from ±10 inH₂O/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

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**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

**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
## Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Range</th>
<th>Resolution</th>
<th>Accuracy</th>
<th>Burst pressure</th>
</tr>
</thead>
</table>
| **Fluke-700G01** | -10 to +10 inH₂O  
-20 mbar to 20 mbar | 0.001 inH₂O  
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  
0.0001 mbar | Positive pressure ± 0.1 % of range,  
Vacuum ± 0.1 % of range | 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 | 3 psi  
210 mbar |
| **Fluke-700G05** | -14 psi to 30 psi  
-97 bar to 2 bar | 0.001 psi  
0.0001 bar | Positive pressure ± 0.05 % FS,  
Vacuum ± 0.1 % FS | 60 psi  
4 bar |
| **Fluke-700G06** | -12 psi to 100 psi  
-83 bar to 6.9 bar | 0.01 psi  
0.0001 bar | Positive pressure ± 0.05 % FS,  
Vacuum ± 0.1 % FS | 400 psi  
26 bar |
| **Fluke-700G07** | -12 psi to 500 psi  
-83 bar to 34 bar | 0.01 psi  
0.0001 bar | Positive pressure ± 0.05 % FS,  
Vacuum ± 0.1 % FS | 2000 psi  
138 bar |
| **Fluke-700G08** | -14 psi to 1000 psi  
-97 bar 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 psi to 2000 psi  
-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 psi to 3000 psi  
-97 bar to 200 bar | 0.1 psi  
0.01 bar | Positive pressure ± 0.05 % FS,  
Vacuum ± 0.1 % FS | 10000 psi  
690 bar |
| **Fluke-700G30** | -14 psi to 5000 psi  
-97 bar to 340 bar | 0.1 psi  
0.01 bar | Positive pressure ± 0.05 % FS,  
Vacuum ± 0.1 % FS | 10000 psi  
690 bar |
| **Fluke-700G31** | -14 psi to 10000 psi  
-97 bar to 690 bar | 1 psi  
0.01 bar | Positive pressure ± 0.05 % FS,  
Vacuum ± 0.1 % FS | 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 | 60 psi  
4 bar |
| **Fluke-700GA5** | 0 to 30 psia  
0 to 2 bar absolute | 0.001 psi  
0.0001 bar | ± 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 | ± 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 | ± 0.05 % of range | 1200 psi  
80 bar |
| **Fluke-700RG05** | -14 psi to +30 psi  
-0.97 to +2 bar | 0.001 psi  
0.0001 bar | Positive pressure, ± 0.04 % of reading,  
+0.1 % of range,  
Vacuum ± 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, ± 0.04 % of reading,  
+0.1 % of range,  
Vacuum ± 0.05 % of range | 400 psi  
27 bar |
| **Fluke-700RG07** | -12 to 500 psi  
-0.83 to 34 | 0.01 psi  
0.001 bar | Positive pressure, ± 0.04 % of reading,  
+0.1 % of range,  
Vacuum ± 0.05 % 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, ± 0.04 % of reading,  
+0.1 % of range,  
Vacuum ± 0.05 % 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, ± 0.04 % of reading,  
+0.1 % of range,  
Vacuum ± 0.05 % 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, ± 0.04 % of reading,  
+0.1 % of range,  
Vacuum ± 0.05 % of range | 15000 psi  
1035 bar |
| **Fluke-700RG31** | -14 to 10000 psi  
-0.97 to 690 bar | 1 psi  
0.01 bar | Positive pressure, ± 0.04 % of reading,  
+0.1 % of range,  
Vacuum ± 0.05 % of range | 20000 psi  
1380 bar |

700R Ranges: Temperature Compensation 0 °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

### 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

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

### Ordering information

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>Fluke-700G01</td>
<td>Pressure Gauge, ±10 inH₂O WC (0.4 PSIG)</td>
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<tr>
<td>Fluke-700G02</td>
<td>Pressure Gauge, ±30 inH₂O WC (1 PSIG)</td>
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<tr>
<td>Fluke-700G04</td>
<td>Pressure Gauge, ± 15 PSIG</td>
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<td>Data logging software and cable</td>
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<td>Fluke-700PTPK</td>
<td>Pneumatic test pump kit, 0 to 600 PSI/40 BAR</td>
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### Included accessories (Gauges)

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