

Teknik veriler

# Fluke 730G Digital Pressure Calibrator







## Temel özellikler

- Pressure measurement from  $\pm 10$  inH<sub>2</sub>O/2.5 kPa to 10000 psi/69 MPa
- Four absolute pressure measurement ranges: 15 PSIA (103 kPa), 30 PSIA (207 kPa), 100 PSIA (690 kPa), 300 PSIA (2 MPa)
- Pressure measurement accuracy 0.05% of full scale, 0.02% optional
- Current measurement range: 0-24mA
- Voltage measurement range: 0-30VDC
- 0.01% current and voltage accuracy
- Powerful HART communication, supports HART 7
- 24V loop power, no external power supply needed
- Lithium battery life: 25 hours continuously (without 24 V loop power), or 8 hours continuously (24 V loop power)
- Storage up to 128 sets of calibration data
- Ingress protection: IP54
- 1-meter drop test
- Three-year warranty

## Ürün İncelemesi: Fluke 730G Digital Pressure Calibrator

### A compact, smart pressure solution for bench or field

The Fluke 730G Smart Digital Pressure Calibrator combines the performance of a precision test gauge with the power of a loop calibrator and also includes internal HART communication capabilities. When used with a pressure test pump the Fluke 730G becomes a high-efficiency, highly accurate calibrator that can test pressure gauges, pressure switches and pressure transmitters making it ideal for instrument shops, gauge labs and pressure laboratories.

- **Built-in HART Communication:** The integrated HART communication functionality is easy-to-use and allows you to adjust HART directly, without requiring additional tools for adjustment.
- **Precision Pressure and Current Measurements:** The 730G series provides high-precision 0.02% pressure measurement accuracy and 0.01% current measurement accuracy to meet the requirements for establishing a pressure laboratory and achieving accurate pressure calibration results.
- **Intuitive operation and ease of use:** A high-end LCD display and dual-jack design bring a more convenient and efficient user experience.
- **Paperless testing and reporting:** Optional 730G/PCSW management software enables paperless testing giving you the ability to automatically generate test reports and document results.

### Fluke 730G/PCSW Software

- **Paperless management of pressure calibrations:** Record calibration data, automate calibration tests and generate calibration reports.
- **Asset management:** Manage tested equipment and pressure standards with ease.
- **Supported pressure devices include:** analog pressure gauges, digital pressure gauge, pressure transmitter, pressure sensors and pressure switches.

### Increase your pressure testing capabilities using test pump kits

Fluke-700PTPK Pneumatic test pump kit:

- Combine with any Fluke-730G Series Gauge, 1000 psi (69 bar) or less
- Generate pressure up to 600 psi (40 bar) with the 700PTP-1 test pump
- Connect the 730G 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 Pump Kits
- Combine with any Fluke-730G Series Gauge, 1000 psi (69 bar) or greater
  - Generate pressure up to 10000 psi (690 bar) with the 700HTP-2 test pump
  - Connect the 730G Series gauge directly to the HTP-2 hand pump
  - Includes 700HTH-1 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

## Özellikler: Fluke 730G Digital Pressure Calibrator

### Technical specifications

Pressure specifications: 0.02% of full scale (730RG), 0.05% of full scale (730G)

Current specifications: 0.01% of reading

Model	Range	Resolution	Accuracy <sup>1</sup>	Burst pressure
730G01	-10 to +10 inH2O -20 to 20 mbar -2.49 to 2.49 kPa	0.001 inH2O 0.001 mbar 0.0001 kPa	Positive pressure, $\pm 0.2\%$ of range <sup>2</sup> Vacuum, $\pm 0.2\%$ of range <sup>2</sup>	3 psi, 210 mbar 20.6 kPa
730G02	-1 to +1 psi -70 to 70 mbar -6.89 to 6.89 kPa	0.0001 psi 0.001 mbar 0.0001 kPa		5 psi, 350 mbar 34.4 kPa

730G04	-14 to 15 psi -0.97 to 1 bar -97 to 103 kPa	0.001 psi 0.0001 bar 0.01 kPa	Positive pressure, $\pm 0.05\%$ of range Vacuum, $\pm 0.1\%$ of range	60 psi 4 bar 413.6 kPa
730G05	-14 to 30 psi -0.97 to 2 bar -97 to 206 kPa	0.001 psi 0.0001 bar 0.01 kPa		120 psi 8 bar 827.3 kPa
730G06	-12 to 100 psi -0.83 to 6.9 bar -83 to 690 kPa	0.01 psi, 0.0001 bar		400 psi 26 bar 2.757 MPa
730G27	-12 to 300 psi -0.83 to 20 bar -83 to 2 MPa	0.01 psi 0.001 bar 0.1 kPa		1200 psi 80 bar 8.273 MPa
730G07	-12 to 500 psi -0.83 to 34 bar -83 to 3.4 MPa	0.01 psi 0.001 bar 0.1 kPa		2000 psi 138 bar 13.789 MPa
730G08	-14 to 1000 psi, -0.97 to 69 bar -97 to 6900 kPa	0.01 psi 0.001 bar 0.1 kPa		4000 psi 266 bar 27.579 MPa
730G10	-14 to 2000 psi, -0.97 to 140 bar -97 to 14 MPa	0.1 psi 0.01 bar 1 kPa		8000 psi 550 bar 55.158 MPa
730G29	-14 to 3000 psi, -0.97 to 200 bar -97 to 20 MPa	0.1 psi 0.01 bar 1 kPa		10000 psi 690 bar 68.947 MPa
730G30	-14 to 5000 psi, -0.97 to 340 bar -97 to 34 MPa	0.1 psi 0.01 bar 1 kPa		10000 psi 690 bar 68.947 MPa
730G31	-14 to 10000 psi, -0.97 to 690 bar -97 to 69 MPa	1 psi 0.01 bar 1 kPa		15000 psi 1035 bar 103.421 MPa
730GA4	0 to 15 psia, 0 to 1 bar 0 to 100 kPa absolute pressure	0.001 psi 0.0001 bar 0.01 kPa	$\pm 0.05\%$ of range <sup>4</sup>	60 psi 4 bar 413.6 kPa
730GA5	0 to 30 psia 0 to 2 bar 0 to 200 kPa absolute pressure	0.001 psi 0.0001 bar 0.01 kPa		120 psi 8 bar 827.3 kPa
730GA6	0 to 100 psia, 0 to 6.9 bar 0 to 690 kPa absolute pressure	0.01 psi 0.0001 bar 0.01 kPa		400 psi 27 bar 2.757 MPa
730GA27	0 to 300 psia 0 to 20 bar 0 to 2 MPa absolute	0.01 psi 0.001 bar 0.01 kPa		1200 psi 80 bar 8.273 MPa

730RG04	-14 to 15 psi, -0.97 to 1 bar -97 to 100 kPa	0.001 psi 0.0001 bar 0.0001 kPa	Positive pressure, $\pm 0.02$ % of range <sup>3</sup> Vacuum, $\pm 0.05$ % of range <sup>3</sup>	45 psi 3 bar 310.2 kPa
730RG05	-14 to 30 psi, -0.97 to 2 bar -97 to 200 kPa	0.001 psi 0.0001 bar 0.01 kPa		90 psi 6 bar 620.5 kPa
730RG06	-12 to 100 psi, -0.83 to 6.9 bar -83 to 690 kPa	0.01 psi 0.0001 bar 0.01 kPa		1000 psi 69 bar 6.894 MPa
730RG27	-12 psi to 300 psi -0.83 to 20 bar -80 kPa to 2 MPa	0.01 psi 0.001 bar 0.1 kPa		2000 psi 138 bar 14 MPa
730RG07	-12 psi to 500 psi -0.83 to 34 bar -80 kPa to 3.5 MPa	0.01 psi 0.001 bar 0.1 kPa		2000 psi 138 bar 13.789 MPa
730RG08	-14 to 1000 psi, -0.97 to 69 bar -97 to 6900 kPa	0.1 psi 0.001 bar 0.1 kPa		10000 psi 690 bar 68.947 MPa
730RG29	-14 to 3000 psi -0.97 to 200 bar -97 to 20 MPa	0.1 psi 0.01 bar 1 kPa		10000 psi 690 bar 68.947 MPa
730RG30	-14 to 5000 psi, -0.97 to 340 bar -97 to 34 MPa	0.1 psi 0.01 bar 1 kPa		10000 psi 690 bar 68.947 MPa
730RG31	-14 to 10000 psi, -0.97 to 690 bar -97 to 69 MPa	0.1 psi 0.01 bar 1 kPa		15000 psi 1035 bar 103.421 MPa

<sup>1</sup> Accuracy specifications above have considered the effects of linearity, repeatability, resolution, reference accuracy, 1-year stability, and temperature effect.

<sup>2</sup> For 730G01/730G02, accuracy is  $\pm 0.3\%$  of full scale @ 0 °C to 15 °C and 35 °C to 50 °C.

<sup>3</sup> For all 730RG model, add 0.003% FS/°C @ 0 °C to 18 °C and 28 °C to 50 °C

<sup>4</sup> For 730GA4, add 0.006% FS/°C @ -10 °C to 15 °C and 35 °C to 55 °C; for all other 730GA model, add 0.003% FS/°C @ -10 °C to 15 °C and 35 °C to 55 °C.

#### Media Compatibility

730G01, 730G02, 730G04, 730G05, 730RG04, 730RG05: any clean dry non-corrosive gas

Above 100 psi: any liquids or gases compatible with 316 stainless steel

#### Electrical specifications (All specifications are valid to 110% of range)

Current	0 mA to 24 mA
Voltage	0 V DC to 30 V DC
Current range	1 $\mu$ A
Voltage range	1 mV
Accuracy	0.01% $\pm$ 2 LSD all ranges @ 23°C $\pm$ 5 °C
Temperature compensation	From 20% FS/°C @ -10 °C to +18 °C and 28 °C to 50 °C
Loop Compliance Voltage	24 V DC @ 20 mA
Temperature measurement accuracy inside the product	$\pm 0.5$ °C



Drive Capability	1200 $\Omega$ (without HART resistor), 950 $\Omega$ (with in-teal HART resistor)
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