

HIGH-ACCURACY DIGITAL PRESSURE GAUGES

TERMINAL POINT, TOTAL ERROR BAND ACCURACY

FROM -18 to 66°C (0 to 150°F)

**Backlit
Display
Standard!**

DPG7000 0.05% Accuracy
DPG7010 0.10% Accuracy
DPG7025 0.25% Accuracy

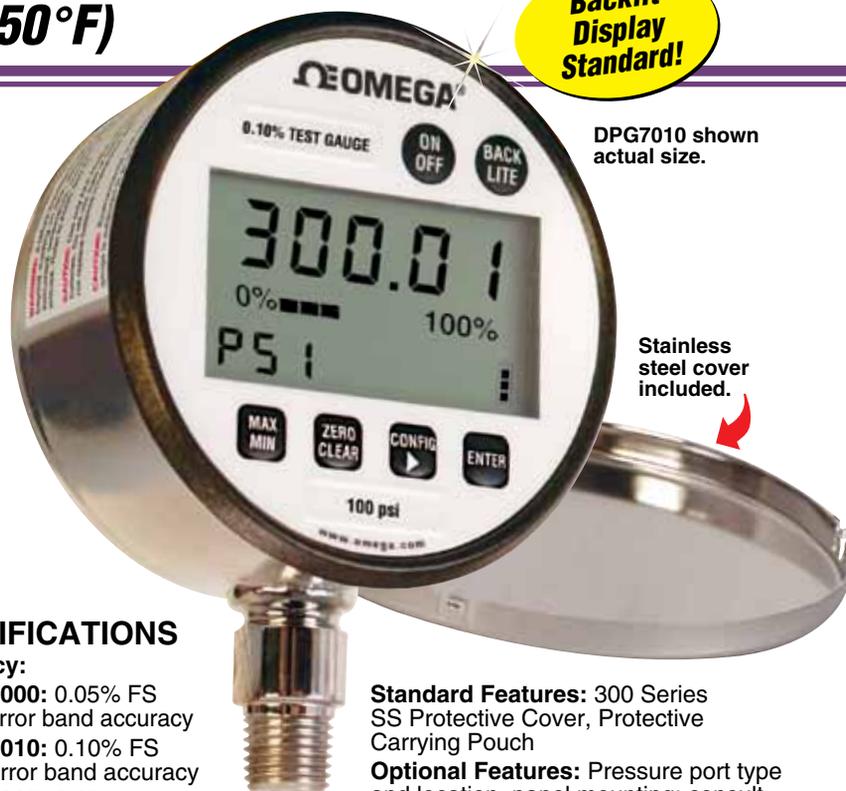
DPG7010 Series



- ✓ 0.05, 0.10 and 0.25% FS Accuracy Models
- ✓ 12 User-Selectable Units of Measure
- ✓ Large 17 mm (0.66") Display with % of Range Bar Graph
- ✓ All Stainless Steel Wetted Parts and Case
- ✓ NEMA 4 (IP65) Weatherproof Case
- ✓ Programmable for 7 Languages

The DPG7000 Series comprises high-accuracy digital test gauges designed for the most demanding applications. These gauges feature a 0.05% total error band, which includes linearity, hysteresis, repeatability, and temperature effects from -18 to 66°C (0 to 150°F). The all stainless steel wetted parts and case carry a NEMA 4 (IP65) rating.

A variety of user-configurable options—including languages, update rate, dampening, backlight, and auto-off—greatly increase the DPG7000's versatility. All units include a stainless steel protective cover and carrying case. A 10-point individual calibration chart is standard with 0.05% accuracy units.



DPG7010 shown actual size.

Stainless steel cover included.

SPECIFICATIONS

Accuracy:

DPG7000: 0.05% FS total error band accuracy
DPG7010: 0.10% FS total error band accuracy
DPG7025: 0.25% FS total error band accuracy

Terminal Point: Total error band (TEB) including hysteresis, linearity, repeatability and temperature from -18 to 66°C (0 to 150°F)

Calibrate: Zero and Span (password protected)

CASE

Size: 76 mm (3")
Material: 300 Series Stainless Steel
Finish: Electropolished
Rating: Weatherproof, IP65, NEMA 4

Wetted Parts: 316 Stainless Steel

Socket Size: ¼ NPT Male

Socket Location: Lower (6 o'clock)

Mounting: Stem

Operating Temperature: -18 to 63°C (0 to 150°F)

Storage Temperature: -40 to 82°C (-40 to 180°F)

Temperature Correction: -18 to 63°C (0 to 150°F); included in accuracy specification

Power: 3 "AAA" alkaline batteries, included

Battery Life: >1000 hr

Auto Off: Five Options: Never, 2 min., 5 min., 15 min., 30 min.

Agency Approvals: CE EN 50082-1 (1997), FM, CSA

Note: FM/CSA approval not available on vacuum range and vacuum/15# ranges

Calibration Chart: 10 point individual calibration chart, standard for DPG7000; optional for DPG7010 and DPG7025 models

Standard Features: 300 Series SS Protective Cover, Protective Carrying Pouch

Optional Features: Pressure port type and location, panel mounting; consult engineering for details

DISPLAY

Type: LCD, with bar graph; backlight standard

Display Digits: 5, 99,999 counts

Character Height: 16.7 mm (0.66")

Engineering Units: psi, inHg, inH₂O, ftSW, Bar, mBar, kPa, mPa, mmHg, cmH₂O, mmH₂O, kg/cm²

Update Rate: Four Options; 10x/sec, 5x/sec, 2x/sec, 1x/sec

Dampening: Five Options; None, average 2, 4, 6, 8 readings

Language: Seven Languages; English, Spanish, French, Italian, German, Portuguese, Dutch

Backlight: Five Options; On/off, 10 sec., 30 sec., 1 min., 5 min.

Zero Disable: Allows for disabling of Zero button

Contrast: Seven available options

Disable: Allows for "lock-out" of CONFIG options

KEYPAD FUNCTIONS

On/Off: Manually turns unit on and off

Backlight: Manually turns backlight on and off

Minimum/Maximum: Stores minimum and maximum values when displayed

Zero/Clear: Zeros display or clears minimum and maximum values when displayed

Enter: Selects items in configuration menu

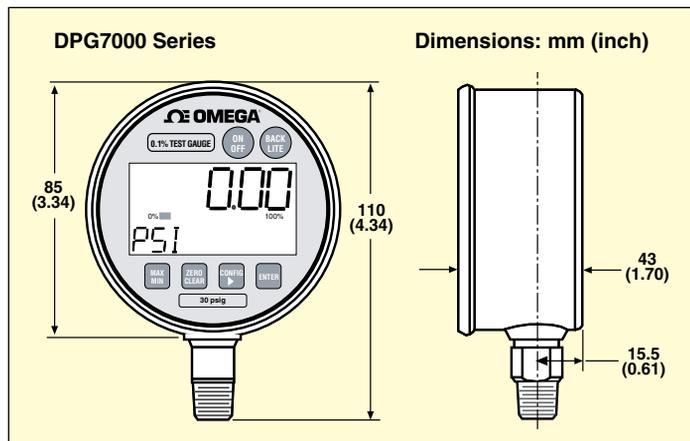
Config: Configuration mode; allows scrolling through configuration menus to select available options

HIGH-ACCURACY GAUGES

AVAILABLE RANGES

User-Selectable Ranges*	psi	Compound (psi)	kPa	bar/kg/cm ²	Compound (bar)
	vac.	15 & vac.	-100 to 0	1	-1 to 0
	5	30 & vac.	25	1.6	-1 to 1
	10	60 & vac.	40	2.5	-1 to 2
	15	100 & vac.	60	4	-1 to 3
	30		100	6	-1 to 30
	60		160	10	
	100		400	16	
	160		600	25	
	200		1000	40	
	300			60	
	500			100	
	600			160	
	800			250	
	1000			400	
	2000				
	2500				
3000					
5000					
7000					
mmH ₂ O	mPa	mbar/cmH ₂ O	Absolute (psia)		
3000	1	250	15		
5000	1	300	25		
10,000	1.6	400	50		
	2.5	500			
	6	600			
	10	1000			
	40	1600			
		2000			
		2500			
		4000			
		5000			
		6000			
		10,000			

* Order psi range closest to full scale range of the units desired. The units selection is programmable via the front-panel buttons.



PRESSURE GAUGES

To Order Visit omega.com/dpg7000 for Pricing and Details

RANGE		MODEL NO.	MODEL NO.	MODEL NO.
psig	bar	0.25% ACCURACY	0.10% ACCURACY	0.05% ACCURACY
0 to -14.7	0 to -1	DPG7025-Vac	DPG7010-Vac	DPG7000-Vac
-14.7 to 15	-1 to 1	DPG7025-Vac/15	DPG7010-Vac/15	DPG7000-Vac/15
-14.7 to 30	-1 to 2	DPG7025-Vac/30	DPG7010-Vac/30	DPG7000-Vac/30
0 to 10	0 to 0.7	DPG7025-10	DPG7010-10	DPG7000-10
0 to 15	0 to 1	DPG7025-15	DPG7010-15	DPG7000-15
0 to 30	0 to 2	DPG7025-30	DPG7010-30	DPG7000-30
0 to 60	0 to 4	DPG7025-60	DPG7010-60	DPG7000-60
0 to 100	0 to 7	DPG7025-100	DPG7010-100	DPG7000-100
0 to 200	0 to 13	DPG7025-200	DPG7010-200	DPG7000-200
0 to 300	0 to 20	DPG7025-300	DPG7010-300	DPG7000-300
0 to 500	0 to 34	DPG7025-500	DPG7010-500	DPG7000-500
0 to 1000	0 to 69	DPG7025-1K	DPG7010-1K	DPG7000-1K
0 to 2000	0 to 138	DPG7025-2K	DPG7010-2K	DPG7000-2K
0 to 3000	0 to 207	DPG7025-3K	DPG7010-3K	DPG7000-3K
0 to 5000	0 to 345	DPG7025-5K	DPG7010-5K	DPG7000-5K
0 to 7000	0 to 483	DPG7025-7K	DPG7010-7K	DPG7000-7K

ACCESSORY

MODEL NO.	DESCRIPTION
DPG7000-ABS-CASE	Weatherproof ABS gauge carrying case

Comes complete with stainless steel cover, padded carrying case and operator's manual. DPG7000 0.05% units also include NIST-traceable calibration certificate.

† To order DPG7025 or DPG7010 units with optional NIST traceable calibration certificate, add suffix "-NIST" to model number for additional cost.

Note: To order a range not shown in the "Most Popular Models" above, replace the range in the model number (the numbers and letters after the "-" with the range and units you need from the "Available Range" chart (i.e., DPG7010-25 psia is a 0 to 25 psi absolute gauge with 0.10% accuracy).

Ordering Examples: DPG7010-Vac/15, compound range, vacuum to 15 psi gauge digital pressure gauge, 0.10% accuracy.

DPG7025-100, 100 psi gauge pressure digital pressure gauge, 0.25% accuracy.

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