



PG-2000

Digital Pressure Gauge

- Large 4 digit display with 0.5 in. digits
- Available ranges from 0 up to 2,000 psi
- Rugged, chemical-resistant case
- Display capability to 2000
- Battery operated with convenient on/off switch
- ±0.25% accuracy of full scale (on selected ranges)
- Gauge reference pressure
- Internally complaint to CE
- On/off button
- 1/4" NPTM process connection

Options

- 16 minute auto-off optional at no extra cost
- Rear pressure port
- Zero adjust knob
- External power
- ±0.25% accuracy with NIST certification (on select ranges)

Accessories

- Panel mount flange (rear pressure port only)
- AC to DC external power supply

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Shock dampening rubber boot

■ Operational Description

Battery Powered Digital Gauge Offers High Accuracy at Low Cost

Utilizing a solid state design, the PG-2000 incorporates a semiconductor strain gage pressure transducer as the sensing element, conditioned by state of the art surface mount electronics. The unit has a very low power requirement, resulting in a battery life of two years in typical use. The large 4 digit display and $\pm 0.25\%$ full scale accuracy allows it to replace much larger mechanical gauges.

Applications

No special tools or adaptors are required for installation of the PG-2000. This makes the unit an easy, cost-effective replacement for less accurate, standard mechanical gauges. The unit's long life, ease of operation, high accuracy, and low cost make it perfect for all applications where standard 2 1/2 in. or larger mechanical gauges have been used.



■ Specifications

Performance	
Standard Pressure Ranges	:: See table at right
Overpressure: 2x full scale	
Burst Pressure: 10x full sca	ale or 20,000 psi (whichever is less)
Accuracy (linearity & hyste	eresis): ±0.25% of full scale (B.F.S.L.) or 2 digital counts, whichever is
greater; NIST traceable cert	ification also available
Stability - One Year Zero D	Prift: 15-5: < ±0.5% F.S., 316: < ±1% F.S.
Thermal Zero Shift	> 100 psi : ±0.02% F.S./°F
	≤ 100 psi : ±0.04% F.S./°F
Thermal Sensitivity Shift	> 100 psi : ±0.02% F.S./°F
	≤ 100 psi: ±0.04% F.S./°F
Life: 10 million cycles mini	mum
Environmental	
Compensated Temp: 20 to	130°F (-7 to 54°C)
Storage Temp: -40 to 160°	F (-40 to 71°C)
Operating Temp: 0 to 160°	F (-18 to 71°C)
Electrical	
Batteries: Standard 9 V (1)	, user replaceable (2-year life typical with auto off option)
External Power: 10-32 VD0	
Display Type: 4 digit LCD,	0.5 in. digits
Display Resolution: 1 part	in 2000
Low Battery Detection: Dis	plays "LBAT" @ 4.0 VDC ±5% with Vin = 9.0 VDC
Adjustments: Front accessi	ble "Z": Zero Adjust; "S": Span Adjust
Auto Off: 16 minutes	
Physical	
Weight: 0.36 lb.	

■ Common Pressure Ranges

Range		Unit of	Display
Option	Range	Measure	Resolution
20	0 to 20	psi	0.01*
100	0 to 100	psi	0.1
160	0 to 160	psi	0.1
200	0 to 200	psi	0.1
250	0 to 250	psi	0.1
500	0 to 500	psi	0.1
1000	0 to 1000	psi	1
2000	0 to 2000	psi	1

^{*}Requires G2 option when ordering.

■ Electrical Cable Length Table

	Cable Length
W0 ▲	0 ft.
W1	2 ft. (0.6 m)
W2	5 ft. (1.5 m)
W3	10 ft. (3 m)
W4	25 ft. (7.6 m)
W5	50 ft. (15.2 m)

Construction Materials

Wetted Materials: 15-5 SS; 316L SS available at no extra charge (High resolution ranges under 100 psi, in 316L SS incorporate a Hastelloy® C276 diaphragm); One piece Hastelloy® fitting also available (minimum quantities required)

External Power Connector: 1/8 in. – 3 conductor (included with optional external power selection) External Power Mating Connector: 1/8 in. - 3 conductor (included with optional external power selection)

Process Cavity Volume: 0.073 in.

Specifications are subject to change without notice.

Case: Injection molded case material EMI-X® PDX-W-88341

■ Linear Accuracy Chart

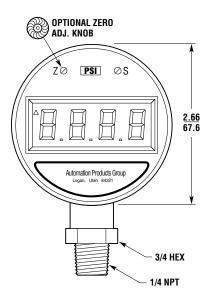
Display	Standard	Accuracy
Resolution	Linear Accuracy	Options
0.01	0.25%	NO, N1
0.1	Better than 1%	N3, N4
0.1	Better than 1%	N3, N4
1	0.25%	NO, N1
1	0.25%	NO, N1
	0.01 0.1 0.1 0.1 0.1	Resolution Linear Accuracy 0.01 0.25% 0.1 0.25% 0.1 0.25% 0.1 0.25% 0.1 Better than 1% 0.1 Better than 1% 0.1 Better than 1% 1 0.25%

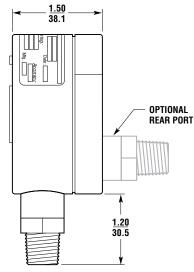
^{*}Requires high resolution option

Note: This table lists linear accuracies for specific ranges. For an explanation of how linear accuracy is calculated, please contact APG.

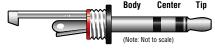


■ Dimensions — in./mm





External Power Plug



■ Ordering Information

	PG-2000 – PSI –	_]-[_]-[_ P0 -]-[_
- Dongs		<u> </u>							L
Range —	,								ı
20.00									ı
100.0									l
160.0									l
200.0									l
250.0 500.0									l
1000									l
2000									l
Pressure T	wne —			-					⊦
G.	Gauge								l
G2	High resolution gauge								l
Auto Off -	riigii resolution gauge	_						 	⊢
Auto on	No auto off								
A4	16 minute auto off								l
Zero Adjus			_						H
ZO A	Cover screw								l
Z1	Z knob								l
Port —	2 10100								H
F0 *	Bottom								l
F1	Rear								l
F6	Rear port with panel bracket					l			
F7	Bottom port with rubber boot								l
Operation	· · · · · · · · · · · · · · · · · · ·								r
L0 ▲	9V battery								l
L4	External power					l			
Electrical (Connection —					j			Г
E0 ▲	No connector								l
E2	1/8 in., 3-conductor external power								l
Electrical (Cable Length —								
W0	0 ft. (Use with E2 (no cable) connecti	ons)							ı
W1-W5	Use with E2 connections. (See Electri	cal Cabl	e Lengt	h chart	for deta	ils)			ı
Accuracy (see Linear Accuracy Chart for details) —								Γ
NO A	±0.25%								l
N1	±0.25% with NIST certification								l
N3	±1%								l
N4	±1% with NIST certification								
Materials -									J
M0 ▲	15-5 SS								
M1	316L SS								

[▲] This option is standard.

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Accessories

Please order separately, by part number. When ordering a flange or boot as an accessory, they will not be installed on the gauge.

Part Number	
512598	
511641	
512625	
	512598 511641