



Digital Pressure Gauge

- Large 3.5 digit display with 0.5 in. digits
- Available ranges from vacuum up to 2,000 psi
- 20 minute auto-off optional at no extra cost
- Rugged, chemical-resistant
- Display capability to 1999
- Battery operated with convenient on/off switch
- ±0.25% accuracy of full scale (on selected ranges)

Options

- Metric units of measure available at no extra cost
- Metric process connection fittings available
- Rear pressure port
- Zero adjust knob
- External power
- 0–2 VDC output (battery powered)
- 4-20 mA output (loop powered)
- 0.25% ±2 digital count accuracy with NIST certification
- Absolute
- Clean for oxygen service
- For OEM applications or other configurations, consult factory



Accessories

- Panel mount flange (rear pressure port only)
- AC power adapter with DC output
- Shock damping rubber boot

Operational Description

Battery Powered Digital Gauge Offers High Accuracy at Low Cost

Utilizing a solid state design, the PG-2000 incorporates a semi-conductor strain gage pressure transducer as the sensing element, conditioned by state of the art surface mount electronics. The unit requires very low power consumption, resulting in a battery life of two years in typical use. The large 3.5 digit display and ±0.25% full scale accuracy allows it to replace much larger mechanical

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.

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Input Current: 3-30 mA max

Output: 4-20 mA ±0.16 mA at set points

■ Electrical Specifications

Output/Input: 2 wire loop powered

Resolution: Infinite Protection: Reversed polarity

0-2 VDC Output

Excitation: Battery powered

Output: Zero set point is ±0.150 V with a 2 VDC

span ±0.05 VDC Resolution: Infinite

Output/Input: 2 wire

Protection: Battery powered

Common Pressure Ranges

Range Option	Range	Unit of Measure	Resolution
30**	-30 to 0	inHg	0.1
20	0 to 20	psi	0.01*
30	0 to 30	psi	0.1
60	0 to 60	psi	0.1
100	0 to 100	psi	0.1
200	0 to 200	psi	0.1
1000	0 to 1000	psi	1
2000	0 to 2000	nsi	1

Other ranges available.

*Requires G2 option when ordering.

**Requires VAC when ordering.

Performance

Standard Pressure Ranges

Compound Gauge: From vac up to 200 psi Gauge or Absolute: From 0 to 2000 psi

Overpressure: 2x full scale

Burst Pressure: 10x full scale or 20,000 psi (whichever is less)

Accuracy (linearity, hysteresis, & repeatability): ±0.25% of full scale (B.F.S.L.) for ±2 digital

counts; traceable certification also available

Stability

One Year Zero Drift: 15-5: $< \pm 0.5\%$ F.S., 316: $< \pm 1\%$ F.S.

Six Month Linearity: < 0.25% F.S. Thermal Zero Shift: ±0.02% F.S./°F Thermal Sensitivity Shift: ±0.02% F.S./°F

Life: 10 million cycles minimum

Environmental

Compensated Temp: 30 to 130°F (-1 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 VDC

Display Type: 3.5 digit LCD, 0.5 in. digits

Transducer Resolution: Infinite Display Resolution: 1 part in 1999

Low Battery Detection: Displays "LOBAT"

Adjustments: Front accessible "Z": Zero Adjust; "S": Span Adjust

Auto Off: 20 minutes

Physical

Weight: 0.36 lb.

Construction Materials

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

Wetted Materials: SS 15-5; 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)

6 Pin Connector: Electrical receptacle, R04-R6M or equivalent with optional output selections (included with optional output selections)

6 Pin Mating Connector: R04-J6F or equivalent (included with optional output selections)

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)

Specifications are subject to change without notice.



For the Latest Information

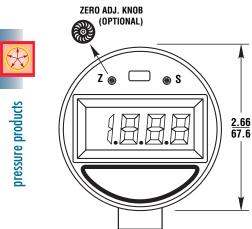
On the Internet: www.stiapq.com E-mail: sales@stiapg.com

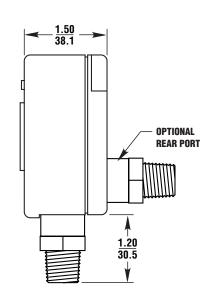
Cavity Volume: 0.073 in.

Rev. 10.04

■ Dimensions — in./mm







■ Wiring

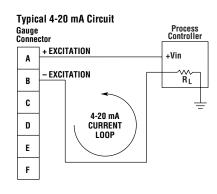
PG-2000 Pin Out Table

		4-20 mA	0-2 VDC	Ex Pwr
6 Pin Circular	Α	+ Excitation	N/C	N/C
	В	Excitation	N/C	N/C
	C	N/C	N/C	N/C
	D	N/C	N/C	N/C
	E	N/C	N/C	N/C
	F	N/C	N/C	N/C
1/8" Plug	Tip	N/C	+ Output	+ Pwr
	Ctr	N/C	– Output	– Pwr
	Body	N/C	N/C	N/C

3/4 HEX 1/4 NPT

6 Pin Connector



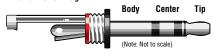


N/C indicates no connection.

Electrical Cable Specifications

AWG: 26	
Stranding: 7/34	
Type: MIL-W-16878E	
Shield: 36 AWG TPC Braid	
Jacket: PVC	





Unit of Measure Table

There are 9 choices available:

psi	mmHg*
bar	inHg
mbar*	kgcm²
kPa	fsw
INWC*	

^{*}Requires G2 option

Port Table

F0	Bottom
F1	Rear
F2	Bottom with 0 ₂ clean
F3	Rear with 0 ₂ clean

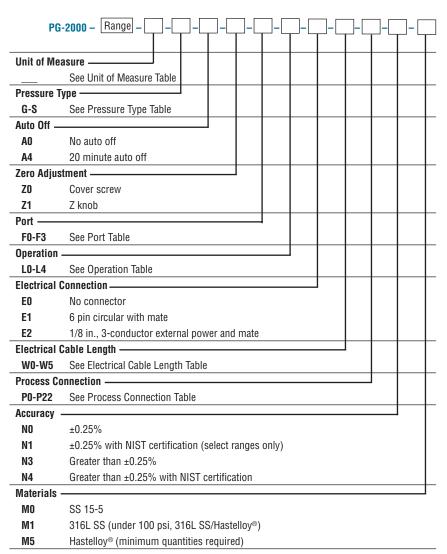
Electrical Cable Length Table

		Output	Signal
		4-20	0-2
Cab	Cable Length		VDC
W0	0 ft.	✓	√
W1	2 ft. (0.6 m)	✓	✓
W2	5 ft. (1.5 m)	✓	✓
W3	10 ft. (3 m)	✓	n/a
W4	25 ft. (7.6 m)	1	n/a
W5	50 ft. (15.2 m)	1	n/a

Process Connection Table

Proc	ess Connection Table
P0	1/4-18 NPTM
P2	1 1/2 in. sanitary
P5	1/4-18 NPTF
P7	7/16-20 SAE male
P8	7/16-20 SAE female
P10	9/16-18 SAE male
P11	VCR male
P12	VCR swivel male
P13	VCR swivel female
P14	1/8-27 NPTM
P15	1/8-27 NPTF
P16	PT 1/4 (BSPM 1/4)
P17	3/8 BSPM
P19	3/8 in. x 1 1/2 in. stub tube
P20	Mini seal 1/4-18 NPTF to mini seal
	1/4-18 NPTM
P21	Mini seal 1/4-18 NPTF to mini seal
	1/2-14 NPTM
P22	G3/8 (3/8 BSPP) male

■ Ordering Information



Pressure Type Table

'	,, be 141916
G	Gauge
G2	High resolution gauge
CG	Compound gauge
٧	Vac
Α	Absolute
S	Sealed

Operation Table

Operation		Electrical Connector
LO	9 V battery	E0
L1	4-20 mA output	E1
L2	0-2 VDC output	E2
L4	External power	E2

Accessories

Please order separately, by part number.

Description	Part Number	
Panel mount flange (rear port only)	512596	
AC power adapter with DC output	511641	
Rubber boot	512625	





For information on Pressure Sanitary Fittings, see page B53.

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