



GREYSTONE

ENERGY SYSTEMS INC

GAGE PRESSURE TRANSMITTER PGS100A Series

PGS100A is a compact gauge pressure transmitter complete with a 2 wire 4-20mA output, various pressure ranges, 1/4" NPT connecton and 2 foot cable for electrical termination and is available in several pressure ranges.

SPECIFICATIONS:

Accuracy at Constant Temp 0.25% F.S.O.
 Supply Voltage Minimum supply voltage (VDC) = 9 + 0.02 x (Resistance of receiver plus line).
 Maximum supply voltage (VDC) = 30 + 0.004 x (Resistance of receiver plus line).
 Output 4 to 20 mA
 External Load 0 to 800 ohms
 Media Compatibility 17 - 4PH stainless steel
 Pressure Port 1/4" - 18 NPT External
 Operating Temp. Range (sensor) .. -40° - 85°C (-40° - 185°F)
 Compensated Temp. Range -20° to 80°C (-4° to 176°F)
 Zero Thermal Shift <±2% of F.S.
 Span Thermal Shift <±1.5% of F.S.
 Response Time 5 milliseconds
 Stability 0.5% FS/Year
 Pressure Overload See product ordering chart

MEDIA COMPATIBILITY:

The PGS100 Series transmitters are designed to be used with any gases or liquids compatible with 17-4PH stainless steel. The 17-4PH stainless has excellent corrosion resistance. Corrosion tests and service experience have shown that in all aged conditions it is superior to standard hardenable stainless grades such as 420, 431 and 410 stainless. This corrosion resistance is comparable to 304 stainless. Note it is not recommended for hydrogen applications.

TYPICAL INSTALLATION:

For complete installation and wiring details, please refer to the product installation instructions.

The PGS100 pressure transmitter is a true 2-wire, 4-20 mA current output device and delivers rated current into any external load of 0-800 ohms. The 4-20 mA units are designed to have current flow in one direction only. The PGS100A comes complete with a 2 foot cable electrical termination.

Typically, standard pipe fittings and procedures should be used. However, for pressure ranges in excess of 500 psig, we suggest the use of a sealant such as Loctite Hydraulic Sealant. Excessive torquing of metal fittings may cause a slight zero shift. The use of plastic fittings typically results in no noticeable zero shift. Torquing does not appreciably affect linearity or sensitivity.



PART NUMBER SELECTED

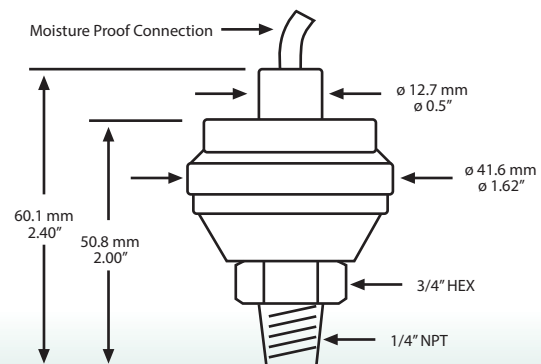
PRODUCT SELECTION INFORMATION:

MODEL	Product Description
PGS100A	Gage Pressure Transmitter

CODE	Pressure Ranges	Proof Pressure (PSI)	Burst Pressure (PSI)
4A1A	-14.7-15 PSIG (-101.4-103.4 kPa)	20	500
5A1A	-14.7-30 PSIG (-101.4-206.8 kPa)	50	500
6A1A	-14.7-60 PSIG (-101.4-413.7 kPa)	100	750
7A1a	-14.7-100 PSIG (-101.4-689.5 kPa)	200	1000
8A1A	-14.7-150 PSIG (-101.4-1034.2 kPa)	400	2000
9A1A	0-10 PSIG (0-68.95 kPa)	20	500
10A1A	0-25 PSIG (0-172.4 kPa)	50	500
11A1A	0-50 PSIG (0-344.7 kPa)	100	750
12A1A	0-100 PSIG (0-689.5 kPa)	200	1000
13A1A	0-150 PSIG (0-1034.2 kPa)	400	2000
14A1A	0-200 PSIG (0-1379 kPa)	400	2000
15A1A	0-250 PSIG (0-1723.2 kPa)	500	2000
16A1A	0-300 PSIG (0-2068.4 kPa)	500	2000
17A1A	0-500 PSIG (0-3447.4 kPa)	1000	3000
18A1A	0-1000 PSIG (0-6894.8 kPa)	2000	5000
19A1A	0-5000 PSIG (0-34473.8 kPa)	7500	10,000
20A1A	0-10,000 PSIG (0-68947.6 kPa)	12,500	20,000

Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.

OUTLINE DRAWING:



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