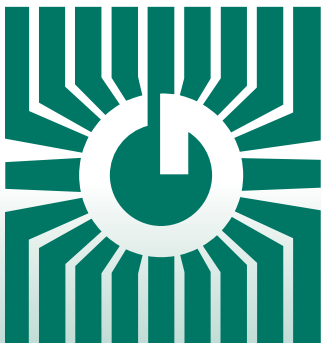


# GREYSTONE ENERGY SYSTEMS INC



## GAUGE PRESSURE TRANSMITTERS PGS Series



PGS100A

### Precision pressure control/sensing

#### FEATURES:

- 1/4" NPT
- NIST traceable calibration
- Weather resistant for harsh environments
- Fast response time
- Capacitance sensing element
- Ranges -14.7 through 10,000 PSIG (-101.4 through 68947.6 kPa)
- Accuracy to  $\pm 0.25\%$  FSO
- DC inputs, current output
- Compensated temperature range:  $-20^{\circ}\text{C}$  to  $80^{\circ}\text{C}$  ( $-4^{\circ}\text{F}$  to  $176^{\circ}\text{F}$ )
- Operating temperature range:  $-40^{\circ}\text{C}$  to  $85^{\circ}\text{C}$  ( $-40^{\circ}\text{F}$  to  $185^{\circ}\text{F}$ )
- 17-4PH Stainless Steel has excellent corrosion resistance (comparable to grade 304 stainless)

*Peace of mind  
through reliable  
pressure monitoring*

GREYSTONE HAS AN **ISO 9001** REGISTERED QUALITY SYSTEM

## APPLICATIONS:

- HVAC Systems
- Energy Management Systems
- Steam Pressures
- Refrigerants and Ammonia
- Gas Chromatography
- Paint Spraying Systems
- Electronic Pressure Switch
- Heat Pumps
- Hydraulic Systems
- Irrigation Systems
- Compressor Control
- Propane

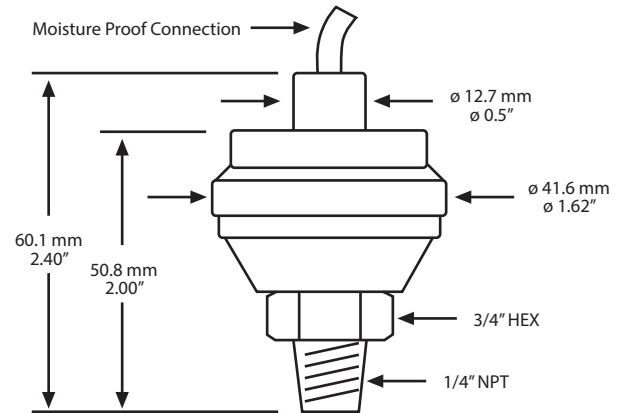
## PRODUCT DESCRIPTION:

**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.

## 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.....  $\pm 2\%$  of F.S.  
 Span Thermal Shift.....  $\pm 1.5\%$  of F.S.  
 Pressure Overload ..... See product ordering chart

## OUTLINE DRAWING:



## 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.

## PRODUCT ORDERING INFORMATION:

MODEL	Product Description
<b>PGS100A</b>	Gage Pressure Transmitter

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

PGS100 4A1A

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



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 ENERGY SYSTEMS INC

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*Greystone Energy Systems Inc. is one of North America's largest ISO registered manufacturers of HVAC/R sensors and transmitters for Building Automation Management Systems. We have conscientiously established a worldwide reputation as an industry leader by maintaining leading-edge design technology, prompt technical support, and a commitment to on-time deliveries. We take pride in our Quality Management System which is ISO 9001 certified, assuring our customers of consistent product reliability.*

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