# 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.
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**

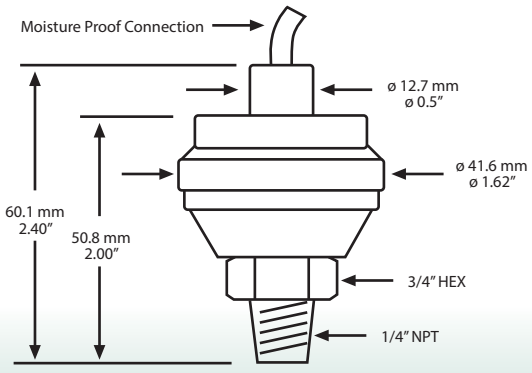
## PRODUCT SELECTION INFORMATION:

| 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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RoHS COMPLIANT



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