

PG Series Gauge Pressure Sensor

Stainless Steel Wet Media
1/4" MNPT
0-5VDC or 4-20mA outputs



DESCRIPTION

This PG Series is a rugged and accurate gauge pressure sensor. It is compatible with a wide variety of liquids and gases. The MEMS technology gives the PG series flexibility to be used in virtually any OEM application. Whether measuring hydraulic pressure in a manifold or corrosive liquids and gases such as sea water or hydrogen, the PG series industrial pressure sensor provides a thick diaphragm to maintain long-term stability.

APPLICATIONS

- Refrigeration Pump Controls
- Chillers
- Freon and Ammonia Cooling Systems
- CO2 Systems
- Building Controls
- Water Pressure Systems
- Boiler Controls
- Environmental Test Chambers
- Great for data center gauge pressure sensing

FEATURES

- Compact, Robust Package
- 48" wire leads; 1/4" - MNPT
- Chemical Compatibilities: Any gas or liquid compatible with 17-4 stainless steel.
- Burst pressure 5X full scale
- Reverse voltage protected
- Rugged stainless steel construction
- UL508 Certified
- No oil, welds or internal o-rings
- 0.25% BFSL @ room temperature (Accuracy includes non-linearity, hysteresis & non-repeatability)

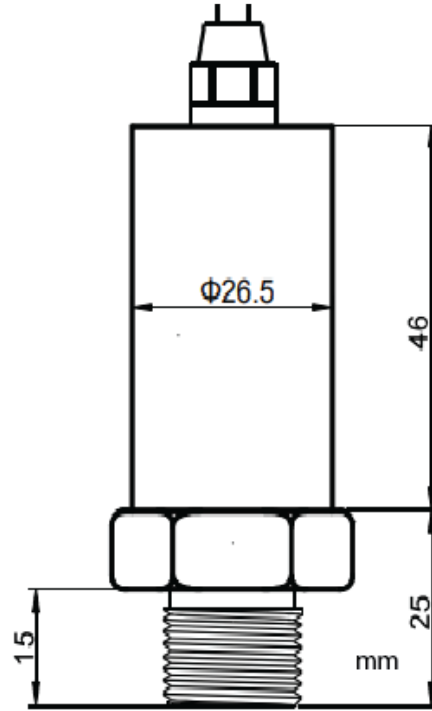
ORDERING


PG- -S

| Pressure Range | Output Type |
|----------------|---------------------|
| 15= 15 PSI | B= 0-5 VDC, 3 Wire* |
| 50= 50 PSI | C= 4-20 mA, |
| 75= 75 PSI | 2 Wire* |
| 100= 100 PSI | |
| 200= 200PSI | |
| 300= 300 PSI | |
| 500= 500 PSI | |

*Requires 12-24VDC power supply.

DIMENSIONS



 **Warning:** The datasheet is designed for reference only. Refer to installation instructions that accompany the product and heed all safety instructions. Product improvement is a continuing process at Senva. Changes may occur to products without prior notice.

SPECIFICATIONS

ELECTRICAL DATA

| Output | 4-20mA | 0-5VDC |
|-----------------------------|-----------------------|--------------------|
| Excitation | 10-28VDC | 10-28VDC |
| Output Impedance | > 10k Ohms | |
| Current Consumption | 20mA, typical | < 10mA |
| Bandwidth | (-3dB): DC to 250 Hz | (-3dB): DC to 1kHz |
| Output Noise | - | |
| Zero Offset | < ±1% of FS | < ±1% of FS |
| Span Tolerance | < ±1.5% of FS | < ±1.5% of FS |
| Output Load | 0-800 Ohms @ 10-28VDC | 10k Ohms, min |
| Reverse Polarity Protection | Yes | Yes |

ENVIRONMENTAL DATA

| Temperature | |
|-----------------------|---|
| Operating | -40 to 85°C (-40 to 185°F) |
| Storage | -40 to 100°C (-40 to 212°F) |
| Thermal Limits | |
| Compensated Range | 0 to 55°C (32 to 132°F) |
| TC Zero | < ±1.5% of FS |
| TC Span | < ±1.5% of FS |
| Other | |
| Shock | EN 60068-2-27 |
| Vibration | EN 60068-2-6, 60068-2-64, and IEC 68-2-32 |
| EMI/RFI Protection | Yes |
| Rating | IP-66 (housing only) |

PERFORMANCE @ 25°C (77°F)

| | |
|-----------------------|--------------------------------------|
| Accuracy (1) | < ±0.5% BFSL |
| Stability (1 year) | ±0.25% FS, typical |
| Over Range Protection | 2X Rated Pressure |
| Burst Pressure | 5X or 20,000 PSI (whichever is less) |
| Pressure Cycles | > 100 Million |

(1) Accuracy includes non-linearity, hysteresis & non-repeatability

WIRING CONNECTIONS

| | |
|----------------|---------------------|
| 0-5 VDC Models | 3-wire voltage |
| 4-20mA Models | 2-wire loop powered |

* Product improvement is a continual process at Senva and product features and specification may change without prior notice. Refer to instructions that accompany the product for installation and wiring.