

# PG Series Gauge Pressure Sensor

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

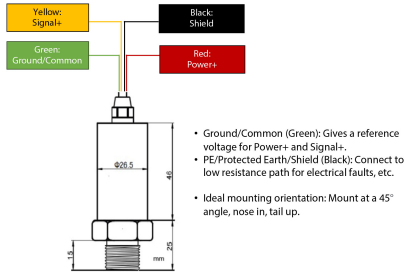


## DESCRIPTION

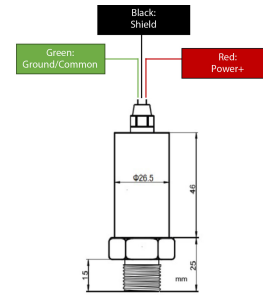
This PG Series is a rugged and accurate gauge pressure sensor. It is compatible with a wide variety of liquids and gases. The MEMS technology gives the PG series flexibility to be used in virtually any OEM application. Whether measuring hydraulic pressure in a manifold or corrosive liquids and gases 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



PG Voltage Output (0-5V)



PG Current Output (4-20mA)

## 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
- No oil, welds or internal o-rings
- 0.25% BFSL @ room temperature (Accuracy includes non-linearity, hysteresis & non-repeatability)

## ORDERING

PG - **Pressure Range**

15= 15 PSI  
50= 50 PSI  
75= 75 PSI  
100= 100 PSI  
150= 150 PSI\*  
200= 200PSI  
250= 250PSI\*  
300= 300 PSI  
500= 500 PSI

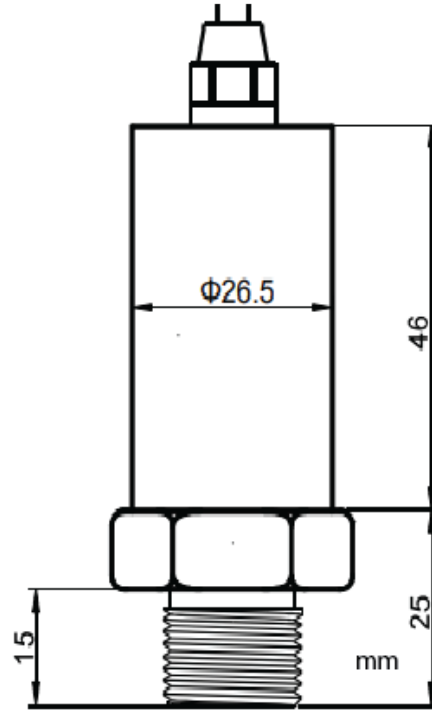
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**Output Type**

B= 0-5 VDC, 3 Wire  
C= 4-20 mA, 2 Wire

\* 150 PSI and 250 PSI options, only available with 4-20mA, 2 Wire

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**

<b>Output</b>	<b>4-20mA (2-wire loop)</b>	<b>0-5VDC</b>
Excitation	15-30VDC	10-30VDC
Output Impedance	> 10k Ohms	
Current Consumption	20mA, typical	< 10mA
Reverse Polarity Protection	Yes	Yes

**ENVIRONMENTAL DATA**

<b>Temperature</b>	
Operating	-40 to 125°C
Storage	-40 to 125°C
<b>Thermal Limits</b>	
Compensated Range	-10 to 70°C
TC Zero	< ±0.3% of FS/°C
TC Span	< ±0.3% of FS/°C
<b>Other</b>	
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)	< ±0.25% 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

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