

## PG Series Gauge Pressure Sensor

Stainless Steel Wet Media  
1/4" MNPT  
0-5VDC, 4-20mA, or 0-10VDC outputs

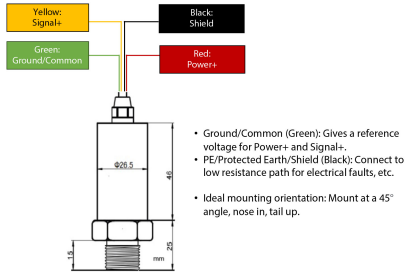


### DESCRIPTION

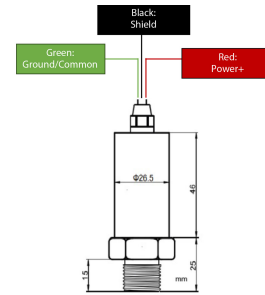
This PG Series is a rugged and accurate gauge pressure sensor. It is compatible with a wide variety of liquids and gases. The MEMS technology gives the PG series flexibility to be used in virtually any OEM application. Whether measuring hydraulic pressure in a manifold or corrosive liquids and gases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

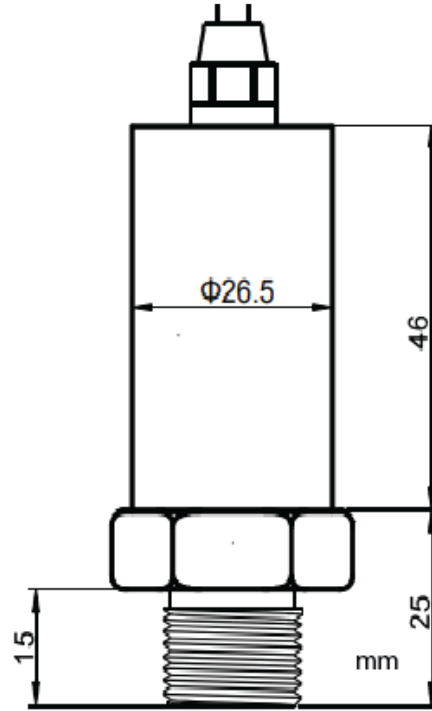
PG -  S**Pressure Range**


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

**Output Type**

A = 0-10 VDC, 3 Wire  
B = 0-5 VDC, 3 Wire  
C = 4-20 mA, 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</b>	<b>0-5VDC</b>	<b>0-10VDC</b>
	<b>(2-wire loop)</b>		
Excitation	15-30VDC	10-30VDC	10-30VDC
Output Impedance	>10k Ohms		
Current Consumption	20mA, typical	<10mA	<10mA
Reverse Polarity Protection	Yes	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	<b>Housing:</b> IP-66 <b>Cable:</b> IP-68 (No UV rating)

**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

\* 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.