

PG Series

Gauge Pressure Sensor

Stainless Steel Wet Media

1/4" MNPT

0-5VDC or 4-20mA outputs

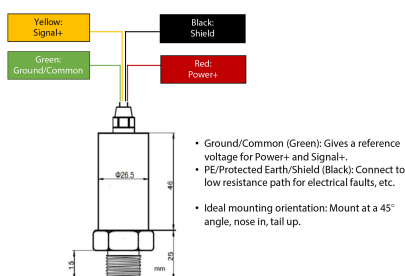


DESCRIPTION

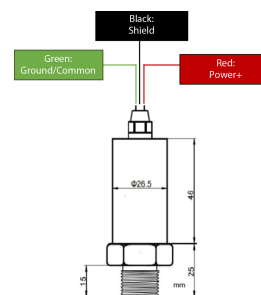
This PG Series is a rugged and accurate gauge pressure sensor. It is compatible with a wide variety of liquids and gases. The MEMS technology gives the PG series flexibility to be used in virtually any OEM application. Whether measuring hydraulic pressure in a manifold or corrosive liquids and gases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

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Pressure Range

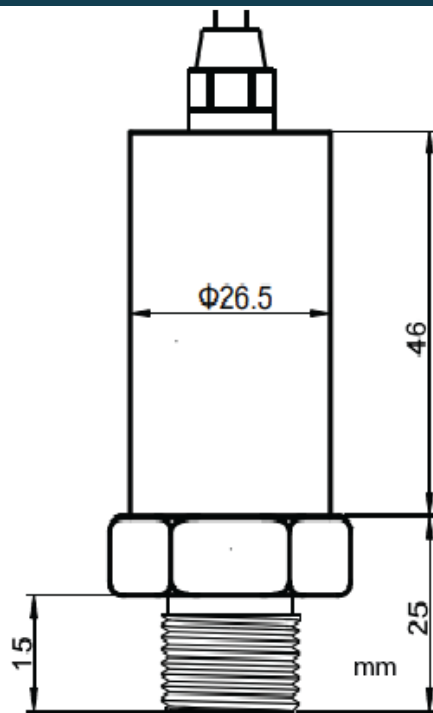
15= 15 PSI
 50= 50 PSI
 75= 75 PSI
 100= 100 PSI
 150= 150 PSI*
 200= 200PSI
 250= 250PSI*
 300= 300 PSI
 500= 500 PSI

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

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

ENVIRONMENTAL DATA

Temperature

Operating	-40 to 125°C
Storage	-40 to 125°C

Thermal Limits

Compensated Range	-10 to 70°C
TC Zero	< ±0.3% of FS/°C
TC Span	< ±0.3% of FS/°C

Other

Shock	EN 60068-2-27
Vibration	EN 60068-2-6, 60068-2-64, and IEC 68-2-32
EMI/RFI Protection	Yes
Rating	Housing: IP-66 Cable: IP-68 (No UV rating)

PERFORMANCE @ 25°C (77°F)

Accuracy (1)	< ±0.25% BFS
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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