



# Model 206 Industrial Pressure Transducer

# Features

- User accessible zero/span
- Exceptional EMI/RFI
- Absolute pressure option
- Long-term stability: <0.5%/year
- Reverse wire protection
- Calibration NIST traceable
- Wide operating voltage 12 VDC to 28 VDC
- CE & RoHS compliant

# Applications

- Industrial OEM Equipment
- Hydraulic systems
- Compressor control
- HVAC/R equipment
- Industrial engines
- Tank level

The Model 206 pressure sensor is designed for industrial and OEM customers who require high performance, reliability and versatility at am affordable price. It offers exceptional ±0.13% FS accuracy for pressure ranges as low as 25 PSI up to 10,000 PSI to meet a multitude of demanding applications. The Model 206 features all stainless steel wetted materials and offers many pressure and electrical connections to satisfy challenging installation requirements. The Model 206 also features field accessible zero and span potentiometers allowing the unit to be calibrated in the field.

## Rugged stainless steel design

The Model 206's rugged stainless steel design is built to withstand the rigors of the most difficult industrials applications. The unit is designed to meet NEMA 4 and IP65 environmental ratings, preventing unwanted moisture ingress.

## High performance at the affordable price

The Model 206's capacitive sensor design offers test & measurement grade accuracy at a low price point. The sensor comes standard with  $\pm 0.13\%$  FS accuracy in ranges from 25 PSI to 10,000 PSI, exceeding most competitive products.

## Flexibility & serviceability

The transducer's pressure and electrical fitting cover many installation configurations, allowing it to fir into most applications. The Model 206 is equipped with zero and span potentiometers, allowing the user to maintain the high performance over the life of the sensor.



**WARNING:** This product can expose you to chemicals including Lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm (For more information go to www.p65warnings.ca.gov)

NOTICE: Lead is encapsulated in the sensor glass housed inside the product.



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## Specifications

## Performance data

| Accuracy RSS <sup>1</sup><br>(at constant temperature) | ±0.13% FS            |
|--|----------------------|
| Non-linearity, (BFSL) 25 PSIG range <sup>2</sup>       | ±0.1% FS<br>±0.2% FS |
| Hysteresis   | ±0.08% FS            |
| Non-repeatability                                      | ±0.02% FS            |
| Response time  | 5 milliseconds       |
| Long term stability                                    | 0.5% FS/YR           |

### **Thermal effects**

| Compensated range | -4 to +176°F (-20 to +80°C)    |
|-------------------|--------------------------------|
| Zero shift        | ±1% FS/100°F (±0.9% FS/50°C)   |
| Span shift        | ±1.5% FS/100°F (±1.4% FS/50°C) |

### **Electrical data (voltage)**

| Excitation/ output  | 12 to 28 VDC reverse excitation protected |
|---------------------|---|
| Power consumption   | <0.15 watts<br>(approx. 5mA @24VDC)       |
| Output <sup>8</sup> | See ordering information <sup>9</sup>     |
| Output impedance    | 100 ohms                                  |
| Circuit             | 3-wire (exc, out, com)                    |
| Vibration           | 200g operating                            |

## Approvals

CE, RoHS

<sup>1</sup>RSS of non-linearity, non-repeatability hysteresis <sup>2</sup>25 PSIG range accuracy is ±0.22% of full scale output <sup>3</sup>Hydrogen not recommended for use with 17-4 PH stainless steel <sup>4</sup>The high temperature limit of the cable is 200°F (95°C) <sup>5</sup>Shift in output reading <0.05 psi/g typical: pressure port axis only <sup>6</sup>Mil-Std. 202, method 213B, cond. C

## Overpressure capability

### **Bar ranges**

| Gauge pressure | Proof pressure | Burst pressure |
|----------------|----------------|----------------|
| 0-1.6          | 6              | 32             |
| 0-4.0          | 10             | 50             |
| 0-6.0          | 18             | 60             |
| 0-10           | 30             | 80             |
| 0-16           | 32             | 130            |
| 0-25           | 50             | 170            |
| 0-40           | 80             | 240            |
| 0-60           | 120            | 300            |
| 0-100          | 200            | 400            |
| 0-160          | 250            | 500            |
| 0-250          | 380            | 550            |
| 0-400          | 600            | 800            |
| 0-700          | 800            | 1,350          |

### **Physical description**

| Pressure fittings     | See ordering information       |
|-----------------------|--------------------------------|
| Vent                  | Through electrical termination |
| Electrical connection | See ordering information       |
| Case                  | Stainless steel                |
| Zero/Span adjustments | Top external access            |
| Weight (approx.)      | 6 oz.                          |

## **Environmental data**

| Operating temperature <sup>4</sup> | -40 to 185°F (-40 to +85°C)  |
|------------------------------------|------------------------------|
| Storage temperature                | -40 to +185°F (-40 to +85°C) |
| Acceleration                       | 10g Maximum⁵                 |
| Shock <sup>6</sup>                 | 200g operating               |
| Vibration                          | 20g 50-2000 Hz               |

### **Electrical data (current)**

| Circuit  | 2-wire                   |
|--|--------------------------|
| Output <sup>10</sup>   | 4 to 20 mA <sup>11</sup> |
| External load  | See ordering information |
| Min. supply voltage (VDC)= 9 + 0.02 x (resistance of receiver plus line) |                          |

Max. supply voltage (VDC)= 30 + 0.004 x (resistance of receiver plus line)

### Pressure media

Gases or liquids compatible with 17-4 PH stainless steel.<sup>3</sup>

<sup>7</sup>Mil-Std, 202, method 204, cond. C <sup>8</sup>Calibrated into a 50K ohm load, operable into a 5000 ohm load or greater <sup>9</sup>Zero output factory set to w/in ±25mV. Span (FS) output factory set to w/in ±50mV <sup>10</sup>Calibrated at factory with ±25VDC loop supply voltage and 2500hm load <sup>11</sup>Zero output factory set to w/in ±0,08mA. Span (FS) output factory set to win ±0,16mA

\*Specifications subject to change without notice.

### **PSIG ranges**

| Gauge pressure | Proof pressure | Burst pressure |
|----------------|----------------|----------------|
| 0-25           | 100            | 500            |
| 0-50           | 150            | 750            |
| 0-100          | 300            | 1,000          |
| 0-250          | 500            | 2,000          |
| 1-500          | 1,000          | 3,000          |
| 0-1,000        | 2,000          | 5,000          |
| 0-3,000        | 4,500          | 7,500          |
| 0-5,000        | 7,500          | 10,000         |
| 0-10,000       | 12,500         | 20,000         |

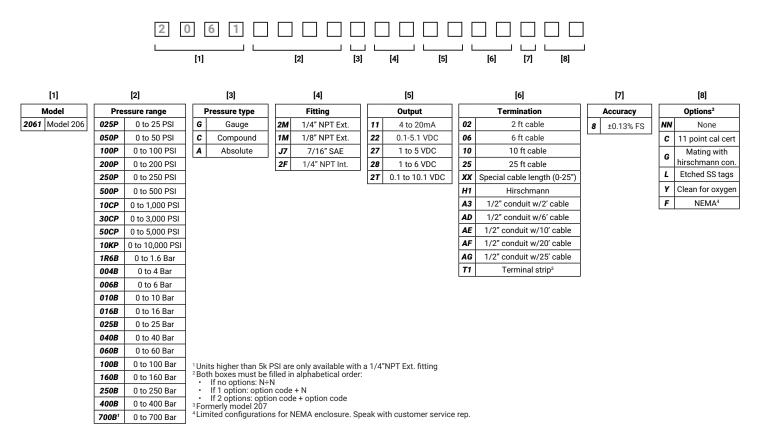
NOTE: Setra quality standards are based on ANSI-Z540-1. The calibration of this product is NIST traceable



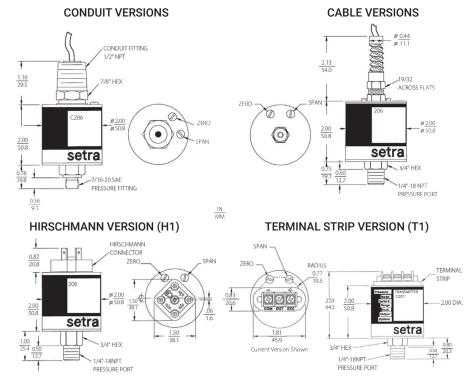
## Ordering information

Example part number: 2061025PG2M11068CN

Model 206, 0 to 25 PSIG, Gauge pressure type, 1/4" NPT Ext. Fitting,4 to 20mA output, 6' cable length, ±0.13% FS accuracy, 11 point cal. cert. option.



## Dimensions





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