

# Model 206

### **Industrial Pressure Transducer**

The Model 206 pressure sensor is designed for Industrial and OEM customers who require high performance, reliability and versatility at an affordable price. It offers exceptional  $\pm 0.13\%$  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.



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

### **High Performance at an 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 fittings cover many installation configurations, allowing it to fit 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.

Hochwertige Messtechnik und Beratung aus einer Hand



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- High Accuracy Sensor
- Rugged Design Withstands High Shock & Vibration
- Configurable Design

#### Model 206 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:**

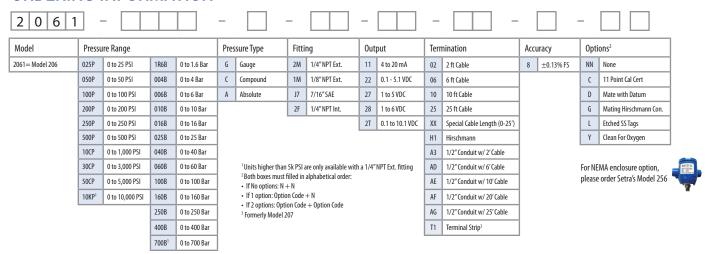
- Industrial OEM Equipment
- Hydraulic Systems
- Compressor Control
- HVAC/R Equipment
- Industrial Engines
- Tank Level

## Model 206

### Industrial Pressure Transducer

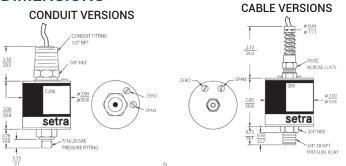


### ORDERING INFORMATION

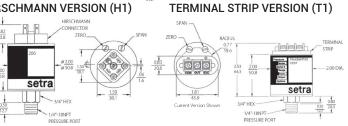


Ordering Example: 2061025PG2M11068CN - Model 206, 0 to 25 PSIG, Gauge pressure, 1/4"NPT Ext. fitting, 4 to 20 mA output, 6' Cable Length, ±0.13% FS Accuracy, 11 Point Cal Cert Option.

### DIMENSIONS



### HIRSCHMANN VERSION (H1)



### **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		

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			
0-500	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.

### **GENERAL SPECIFICATIONS**

Performance Data		Physical Description		
Accuracy RSS <sup>1</sup> (at constant temperature)	±0.13% FS	Pressure Fittings	See Ordering Information	
Non-Linearity, (BFSL) 25 PSIG range <sup>2</sup>	±0.1% FS ±0.2% FS	Vent	Through Electrical Termination	
Hysteresis	±0.08% FS	Electrical Connection	See Ordering Information	
Non-Repeatability	±0.02% FS	Case	Stainless Steel	
Response Time	5 milliseconds	Zero/Span Adjustments	Top External Access	
Long Term Stability	0.5% FS/YR	Weight (approx.)	6 oz	
Thermal Effects		Electrical Data (Voltage)		
Compensated Range	-4 to +176°F (-20 to +80°C)	Excitation/Output	12 to 28 VDC Reverse Excitation Protected	
Zero Shift	±1% FS/100°F (±0.9% FS/50°C)	Power Consumption	<0.15 watts (approx. 5mA @24VDC)	
Span Shift	±1.5% FS/100°F (±1.4% FS/50°C)	Output <sup>8</sup>	See Ordering Information	
Pressure Media		Output Impedance	100 ohms	
Gases or liquids compatible with 17-4 PH Stainless Steel. <sup>3</sup>		Circuit	3-Wire (Exc, Out, Com)	
Environmental Data		Vibration <sup>11</sup>	200g Operating	
Temperature		Electrical Data (Current)		
Operating <sup>4</sup>	-40 to +185°F (-40 to +85°C)	Circuit	2-Wire	
Storage	-40 to +185°F (-40 to +85°C)	Output <sup>10</sup>	4 to 20 mA <sup>11</sup>	
Acceleration	10g Maximum⁵	External Load	0 to 800 ohms	
Shock <sup>6</sup>	200g Operating	Min. Supply Voltage (VDC) = 9 +0.02 x (Resistance of receiver plus line)		
Vibration <sup>7</sup>	20g 50-2000 Hz			
Approvals		Max. Supply Voltage (VDC) = 30 + 0.004 x (Resistance of receiver plus line)		
CE, RoHS				

<sup>1</sup>RSS of Non-Linearity, Non-Repeatability and 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. The high temperature limit of the cable is 200°F (95°C)

Shift in output reading < 0.05 psi/g typical; pressure port axis only

6Mil-Std. 202, Method 213B, Cond. C

Mil-Std. 202, Method 204, Cond. C

<sup>8</sup>Calibrated into a 50K ohm load, operable into a 5000 ohm load or greater

 $^{9}$ Zero output factory set to w/in  $\pm 25$ mV. Span (FS) output factory set to w/in  $\pm 50$ mV.

<sup>10</sup>Calibrated at factory with a 24VDC loop supply voltage and 250ohm load.

 $^{11}$ Zero output factory set to w/in  $\pm 0.08$ mA. Span (FS) output factory set to w/in  $\pm 0.16$ mA. Specifications subject to change without notice