

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.

Rugged Stainless Steel Design

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.



- High Accuracy Sensor
- NEMA 4/IP65 Design
- Configurable Design

Model 206 Features:

- Long-Term Stability: <math><0.5\%/Year</math>
- Exceptional EMI/RFI
- Rugged Design Withstands High Shock & Vibration
- User Accessible Zero/Span
- Calibration NIST Traceable
- Wide Operating Voltage 12 VDC to 28 VDC
- Meets CE Conformance Standards
- Reverse Wire Protection

Applications:

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

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ORDERING INFORMATION

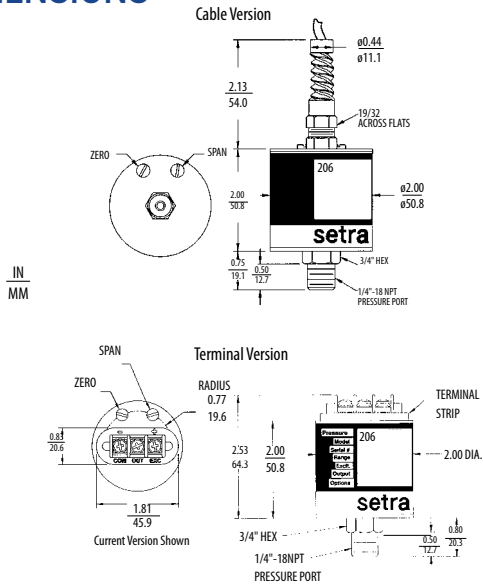


Model	Pressure Range	Pressure Type	Fitting	Output	Termination	Accuracy	Options ²
2061 = Model 206	025P 0 to 25 PSI 004B 0 to 4 Bar	1R6B 0 to 1.6 Bar C Gauge	2M 1/4" NPT Male	11 4 to 20 mA	02 2 ft Cable	8 ±0.13% FS	NN None
	050P 0 to 50 PSI 006B 0 to 6 Bar	C Compound	1M 1/8" NPT Male	22 0.1 - 5.1 VDC	06 6 ft Cable		C 11 Point Cal Cert
	100P 0 to 100 PSI 010B 0 to 10 Bar		J7 7/16" SAE	27 1 to 5 VDC	10 10 ft Cable		D Mate with Datum
	200P 0 to 200 PSI 016B 0 to 16 Bar			28 1 to 6 VDC	25 25 ft Cable		F NEMA 4 Enclosure ²
	250P 0 to 250 PSI 025B 0 to 25 Bar			2T 0.1 to 10.1 VDC	XX Special Cable Length (0-25')		G Mating Hirshmann Con.
	500P 0 to 500 PSI 040B 0 to 40 Bar				H1 Hirshmann		L Etched SS Tags
	10CP 0 to 1,000 PSI 060B 0 to 60 Bar				A3 1/2" Conduit w/ 2' Cable		Y Clean For Oxygen
	30CP 0 to 3,000 PSI 100B 0 to 100 Bar				AD 1/2" Conduit w/ 6' Cable		
	50CP 0 to 5,000 PSI 160B 0 to 160 Bar				AE 1/2" Conduit w/ 10' Cable		
	10KP ¹ 0 to 10,000 PSI 250B 0 to 250 Bar 400B 0 to 400 Bar 700B ¹ 0 to 700 Bar				AF 1/2" Conduit w/ 20' Cable AG 1/2" Conduit w/ 25' Cable T1 Terminal Strip ⁴		

¹Units higher than 5k PSI are only available with a 1/4" NPT male fitting
²Both boxes must be filled in alphabetical order:
 • If No options: N + N
 • If 1 option: Option Code + N
 • If 2 options: Option Code + Option Code
³Only available with T1 termination
⁴Formerly Model 207

Ordering Example: 2061025PG2M11048CN - Model 206, 0 to 25 PSIG, Gauge pressure, 1/4" NPT Male fitting, 4 to 20 mA output, 4' Cable Length, ±0.13% FS Accuracy, 11 Point Cal Cert Option.

DIMENSIONS



GENERAL SPECIFICATIONS

Performance Data		Physical Description	
Accuracy RSS ¹ (at constant temperature)	±0.13% FS	Pressure Fittings	See Ordering Information
Non-Linearity, (BFSL) 25 PSIG range ²	±0.1% FS ±0.2% FS	Vent	Through cable or terminal
Hysteresis	0.08% FS	Electrical Connection	2 ft. multiconductor cable
Non-Repeatability	0.02% FS	Case	Stainless Steel
Response Time	5 milliseconds	Zero/Span Adjustments	Top External Access
Long Term Stability	0.5% FS/1 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 ⁸	0.1 to 5.1 VDC ⁹
Pressure Media		Output Impedance	
Gases or liquids compatible with 17-4 PH Stainless Steel. ³		100 ohms	
Environmental Data		Electrical Data (Current)	
Temperature		Circuit	
Operating ⁴	-40 to +185°F (-40 to +85°C)	2-Wire	
Storage	-40 to +185°F (-40 to +85°C)	Output ¹⁰	
Acceleration	10g Maximum ⁵	4 to 20 mA ¹¹	
Shock ⁶	200g Operating	External Load	
Vibration ⁷	20g 50-2000 Hz	0 to 800 ohms	
		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)	

PROOF PRESSURE

BAR RANGES			PSIG RANGES		
Gauge Pressure	Proof Pressure	Burst Pressure	Gauge Pressure	Proof Pressure	Burst Pressure
1.6	6	32	0-25	100	500
4.0	10	50	0-50	150	750
6.0	18	60	0-100	300	1,000
10	30	80	0-250	500	2,000
16	32	130	0-500	1,000	3,000
25	50	170	0-1,000	2,000	5,000
40	80	240	0-3,000	4,500	7,500
60	120	300	0-5,000	7,500	10,000
100	200	400	0-10,000	12,500	20,000
160	250	500			
250	380	550			
400	600	800			
700	800	1,350			

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

¹RSS of Non-Linearity, Non-Repeatability and Hysteresis
²25 PSIG range accuracy is ±0.22% of Full Scale output
³Hydrogen not recommended for use with 17-4 PH stainless steel.
⁴The high temperature limit of the cable is 200°F (95°C)
⁵Shift in output reading <0.05 psi/g typical; pressure port axis only
⁶Mil-Std. 202, Method 213B, Cond. C
⁷Mil-Std. 202, Method 204, Cond. C
⁸Calibrated into a 50k ohm load, operable into a 5000 ohm load or greater
⁹Zero output factory set to w/in ±25mV. Span (FS) output factory set to w/in ±50mV.
¹⁰Calibrated at factory with a 24VDC loop supply voltage and 250ohm load.
¹¹Zero output factory set to w/in ±0.08mA. Span (FS) output factory set to w/in ±0.16mA.

Specifications subject to change without notice.