

Model 206

Industrial Pressure Transducer

setra

GENERAL PURPOSE/OEM



DESCRIPTION

The Model 206 industrial pressure transducer is one of the most rugged and reliable sensors available. These transducers prove to be superior to competitive brands and technologies in application field testing.

The capacitive design exhibits resistance to environmental effects such as shock, vibration, temperature and EMI/RFI. The Model 206 also meets NEMA-4 and IP65 environmental protection ratings.

With a highly accurate stainless steel capacitive sensor design and custom ASIC based circuit, the Model 206 maintains a high level of performance and accommodates a variety of pressure fittings & electrical connector options.

BENEFITS

- Solid Stability for Confident Installations
- Exceptional EMI/RFI Performance Prevents False Shutdown
- NEMA-4/IP65 Certified for Use in Harsh Environments
- Rugged Design Withstands High Shock/Vibration Applications
- Versatile Package Design Provides JIT Delivery
- User Accessible Zero and Span Adjustment
- CE & RoHS Compliant

APPLICATIONS

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

SPECIFICATIONS

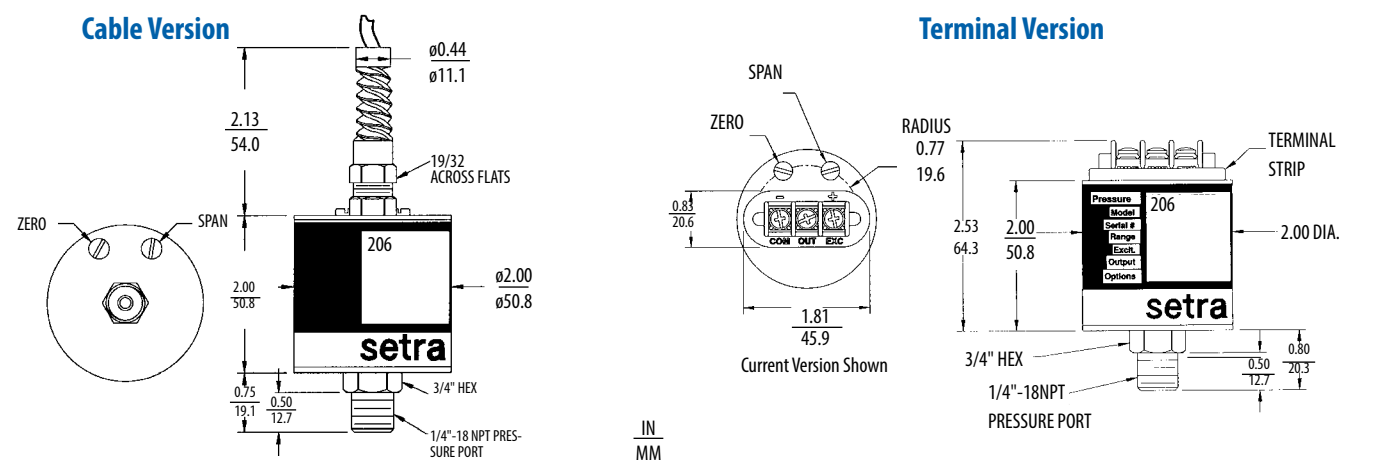
Performance Data		Physical Description		Electrical Data (Voltage)	
Accuracy RSS ¹ (at constant temperature)	±0.13% FS	Pressure Fittings	See Ordering Information	Excitation/Output	12 to 28 VDC Reverse Excitation Protected
Non-Linearity, (BFSL) 25 psig range ²	±0.1% FS ±0.2% FS	Vent	Through cable or terminal	Power Consumption	<0.15 watts (approx. 5mA @24VDC)
Hysteresis	0.08% FS	Electrical Connection	2 ft. multiconductor cable	Output ¹	0.1 to 5.1 VDC ²
Non-Repeatability	0.02% FS	Case	Stainless Steel	Output Impedance	100 ohms
Response Time	5 milliseconds	Zero/Span Adjustments	Top External Access	Circuit	3-Wire (Exc, Out, Com)
Long Term Stability	0.5% FS/1 YR	Weight (approx.)	6 oz		
Thermal Effects		Environmental Data		Electrical Data (Current)	
Compensated Range	-4 to +176°F (-20 to +80°C)	Temperature		Circuit	2-Wire
Zero Shift	1.0 (0.9)	Operating ¹	-40 to +185°F (-40 to +85°C)	Output ³	4 to 20 mA ⁴
Span Shift	1.5 (1.4)	Storage	-40 to +185°F (-40 to +85°C)	External Load	0 to 800 ohms
Pressure Media		Acceleration	10g Maximum ²	Min. Supply Voltage (VDC) = $9 + 0.02 \times (\text{Resistance of receiver plus line})$	
Gases or liquids compatible with 17-4 PH Stainless Steel. ³		Shock ³	200g Operating	Max. Supply Voltage (VDC) = $30 + 0.004 \times (\text{Resistance of receiver plus line})$	
1. RSS of Non-Linearity, Non-Repeatability and Hysteresis 2. 25 psig range accuracy is ±0.22% of Full Scale output 3. Hydrogen not recommended for use with 17-4 PH stainless steel.		Vibration ⁴	20g 50-2000 Hz	1. Calibrated into a 50K ohm load, operable into a 5000 ohm load or greater 2. Zero output factory set to w/in ±25mV. Span (FS) output factory set to w/in ±50mV. 3. Calibrated at factory with a 24VDC loop supply voltage and 250ohm load. 4. Zero output factory set to w/in ±0.08mA. Span (FS) output factory set to w/in ±0.16mA.	

Specifications subject to change without notice.

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DRAWINGS & DIMENSIONS



BAR RANGES

Gauge Pressure	Proof Pressure	Burst Pressure
1.6	6	32
4.0	10	50
6.0	18	60
10	30	80
16	32	130
25	50	170
40	80	240
60	120	300
100	200	400
160	250	500
250	380	550
400	600	800
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.

ORDERING INFORMATION

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Model		Pressure Range				Pressure Type		Fitting		Output		Termination		Accuracy		Options ²		
2061	206	025P	0 to 25 PSI	1R6B	0 to 1.6 Bar	G	Gauge	2M	1/4" NPT Male	11	4 to 20 mA	XX	Cable Length (02-25')	8	±0.13% FS	NN	None	
		050P	0 to 50 PSI	004B	0 to 4 Bar	C	Compound	1M	1/8" NPT Male	22	0.1 - 5.1 VDC	H1	Hirshmann			C	11 Point Cal Cert	
		100P	0 to 100 PSI	006B	0 to 6 Bar			J7	7/16" SAE	27	1 to 5 VDC	A3	1/2" Conduit w/ 2' Cable			D	Mate with Datum	
		200P	0 to 200 PSI	010B	0 to 10 Bar					28	1 to 6 VDC	AD	1/2" Conduit w/ 6' Cable			F	Nema 4 Enclosure ³	
		250P	0 to 250 PSI	016B	0 to 16 Bar					2T	0.1 to 10.1 VDC	AE	1/2" Conduit w/ 10' Cable			G	Mating Hirshmann Con.	
		500P	0 to 500 PSI	025B	0 to 25 Bar							AF	1/2" Conduit w/ 20' Cable			L	Etched SS Tags	
		10CP	0 to 1,000 PSI	040B	0 to 40 Bar							AG	1/2" Conduit w/ 25' Cable			Y	Clean For Oxygen	
		30CP	0 to 3,000 PSI	060B	0 to 60 Bar							T1	Terminal Strip ¹					
		50CP	0 to 5,000 PSI	100B	0 to 100 Bar									¹Formerly Model 207				
		10KP*	0 to 10,000 PSI	160B	0 to 160 Bar													
		*Units higher than 5k PSI are only available with a 1/4" NPT male fitting			250B	0 to 250 Bar												
					400B	0 to 400 Bar												
					700B*	0 to 700 Bar												
																	² Both boxes must filled in alphabetical order • If No options: N + N • If 1 option: Option Code + N • If 2 options: Option Code + Option Code	
																	³ Only available with T1 termination	

*Units higher than 5k PSI are only available with a 1/4" NPT male fitting

¹Formerly Model 207

² Both 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

³ Only available with T1 termination

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