

Applications

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

Benefits

- Solid Stability for Confident Installations
- Exceptional EMI/RFI
 Performance Prevents
 False System Shutdown
- NEMA-4/IP-65 Certified (206) for Use in Harsh Environments
- Rugged Design Withstands High Shock/Vibration Applications
- Versatile Package Design Provides JIT Delivery
- Miswiring Protection Makes for Confident Installation
- User Accessible Zero and Span Adjustment



*Standard configurations only.



5613 800-257-3872

Models 206/207 Specifications

Performance Data

Accuracy RSS* (at constant temperature)	±0.13% FS
Non-Linearity, (BFSL)	±0.1% FS
25 psig range	±0.2% FS
Hysteresis	0.08% FS
Non-Repeatability	0.02% FS
Thorna of Efforts	

Thermal Effects

Compensated Range \P (°C) -4 to +176 (-20 to +80)

 Zero Shift %FS/100°F (%FS/50°C)
 1.0 (0.9)

 Span Shift %FS/100°F (%FS/50°C)
 1.5 (1.4)

 Warm-up Shift
 0.1% FS Total

 Response Time
 5 milliseconds

 Long Term Stability
 0.5% FS/1 YR

Environmental Data

<u>Temperature</u>

Operating 1 1 2

Acceleration 10 g maximum²
Shock* 200g operating
Vibration** 20q 50 - 2000 Hz

Note 1: The high temperature limit of the Model 206 cable is 200% (95%). Note 2: Shift in output reading <0.05 psi/g typical; pressure port axis only.

Zero/Span Adjustments

Physical Description

Case Stainless Steel
Pressure Fitting 1/4" NPT external

(G1/4A or M14 x 1.5 also available on Model 206)

Vent Through cable (206) Via zero screw (207)

Electrical Connection 2 ft. multiconductor cable (206)

3 screw terminal block (207) Top External Access

Weight (approx.) 6 ounces

Electrical Data (Voltage)

Circuit 3-Wire (Exc, Out, Com)
Excitation 12 to 28 VDC, Reverse Excitation

Protected

Output* 0.1 to 5.1 VDC**
Output Impedance 100 ohms

Power Consumption < 0.15 watts (approx. 5mA @ 24 VDC)

* Calibrated into a 50K ohm load, operable into a 5000 ohm load or greater.

**Zero output factory set to within ± 25 mV.

Electrical Data (Current)

Circuit 2-Wire
Output 4 to 20 mA**
External Load 0 to 800 ohms
Minimum supply voltage (VDC) = 9 + 0.02 x

(Resistance of receiver plus line).

Maximum supply voltage (VDC) = 30 + .004 x

(Resistance of receiver plus line).

*Calibrated at factory with a 24 VDC loop supply voltage and a 250 ohm load.

**Zero output factory set to within ± 0.08 mA.

Pressure Media

Liquids and gases compatible with 17-4 PH Stainless Steel.*
*Note: Hydrogen not recommended for use with 17-4 PH Stainless Steel.

Specifications subject to change without notice.

Note: Setra quality standards are based on ANSI-Z540-1.

The calibration of this product is NIST traceable. U.S. Patent No. 3859575: 4054833

PSIG Ranges

Gauge Pressure	Proof Pressure	Burst Pressure	
0-25	100	500	
0-50	150	750	
0-100	300	1000	
0-250	500	2000	
0-500	1000	3000	
0-1000	2000	5000	
0-3000	4500	7500	
0-5000	7500	10,000	
0-10,000	12,500	20,000	

Bar Ranges 206 only

Gauge	Proof	Burst	
Pressure	Pressure	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	1350	

Gauge Pressure: Pressure measured relative to ambient atmospheric pressure. Referred to as pounds per square inch (gauge) or psig.

Proof Pressure: The maximum pressure that may be applied without changing performance beyond specifications (± 0.5% FS zero shift).

Burst Pressure: The maximum pressure that may be applied to the positive pressure port without rupturing the sensing element.

Series industrial pressure transducers are some of the most rugged and most reliable sensors available. Time after time, these transducers prove to be superior to competitive brands and technologies in the most critical test of all — the field application test!

Most pressure transducers seem alike in specification comparisons and even quick bench test analysis; however, the difference becomes obvious in the actual application. Setra's robust capacitive design exhibits its resistance to environmental effects such as shock, vibration, temperature and EMI/RFI. In addition, the 206 meets NEMA-4 and IP65 environmental protection ratings. With 0.5% FS/1 Year long term stability, the 206 is reliable as well as rugged.

To achieve this level of performance, Setra engineers combined a fundamentally simple but highly accurate and repeatable stainless steel capacitive sensor design and a custom ASIC based circuit. This high level output system is packaged in a welded stainless steel housing with versatility to accommodate a variety of pressure fitting and electrical connector options.

Every 206/207 transducer is assembled and calibrated in product-specific workcells. This means that technical experience and high quality standards are part of every transducer.

When it comes to a product to rely on - choose the Model 206/207. When it comes to a company to trust - choose Setra - an ESOP (Employee - Owned) company.

^{*} RSS of Non-Linearity, Non-Repeatability and Hysteresis.

^{*}Mil-Std. 202, Method 213B, Cond. C
**Mil-Std. 202, Method 204, Cond. C

^{**}Span (Full Scale) output factory set to within ±50mV.

^{**}Span (Full Scale) output factory set to within ±0.16mA.

Available Options

(Minimum Quantities for Certain Options Apply. Consult a Setra Applications Engineer.)

Electrical Options

602	1 to 5 VDC Output
603	1 to 6 VDC Output
608	0.1 to 10.1 VDC Output

Feature Options

901	10 Point Calibration Certificate
904	Cleaning for Oxygen Service
911	Etched Metal Stainless Steel Tags

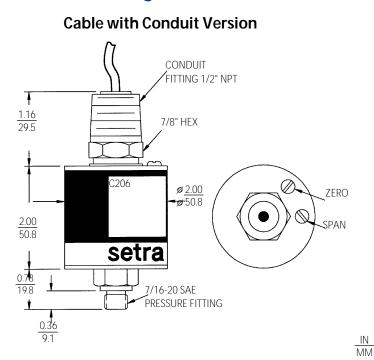
Mechanical Options

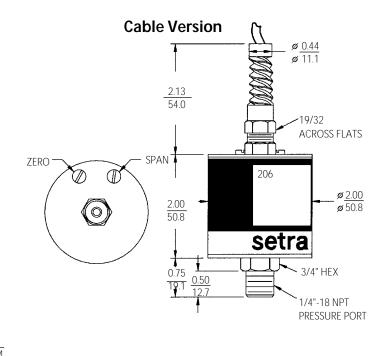
550	Hirchmann Electrical Connector Type GSA 3000N (206 only)
560	7/16-20 SAE (External) Fitting
562	1/8" NPT (External) Fitting
563	#4 Male Face Seal
564	#4 Female Face Seal
655	Top Mounted Bayonet Connector (206 only)
000 005	11-1-25 (-1-4-1111-1-1/20/1-) (

803-825 Up to 25 feet of cable can be supplied (206 only). Specify cable length when ordering (i.e. 805 for 5 ft. cable). Consult factory for cables longer than 25 feet.

NEMA 4 Weather Proof Enclosure (207 only)

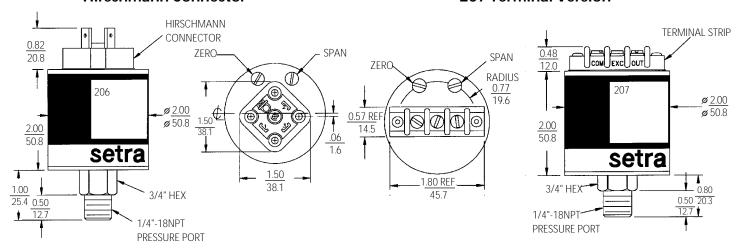
Outline Drawings





Hirschmann Connector

207 Terminal Version



Ordering Information

Example: Order as Model 206, 100 PSIG, Option #550 for a Model 206 100 PSIG Gauge Pressure Range with a Hirschmann Electrical Connector.