Model 256

Pressure Transducers



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

U.S. Patent nos. 6019002; 6014800

DESCRIPTION

The Model 256 is one of the most rugged and reliable sensors available. Specifically designed for NEMA4/IP65 service the 256 is packaged in a die-cast aluminum enclosure and includes Setra's robust capacitive design, making it resistant to environmental effects such as shock, vibration, temperature and EMI/RFI.

Available in a wide variety of gauge pressure ranges, the 256 features adjustable potentiometers for zero and span settings.

Only 3.6" high x 4.0" wide, the Model 256 is designed for compact installations. The removable cover provides easy access to the internal terminal strip for wiring. Installation is quick and easy with 1/2 inch internal threaded conduit ports for electrical termination.

BENEFITS

- Low Cost
- High Accuracy
- NEMA-4/IP-65
- Wide Operating Temperature Range
- Compatible with a Wide Range of Gases or Liquids
- Corrosive Resistant All Stainless Steel Wetted Parts
- Choice of Voltage or Current Output
- Operates on Low Cost Unregulated Power Supply
- Meets CE Conformance Standards

APPLICATIONS

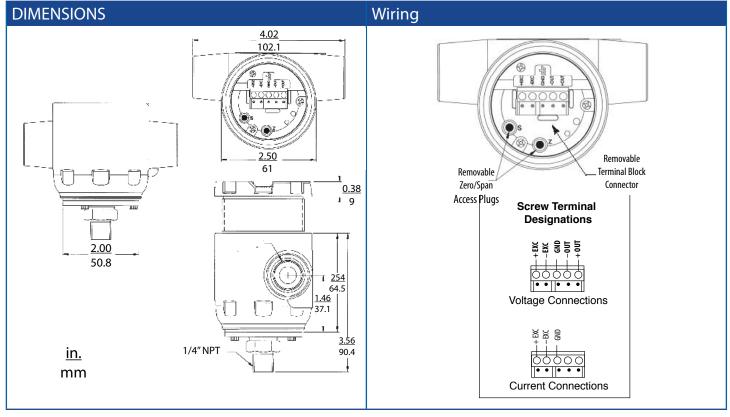
- Process Control
- Chemical Processing
- Agricultural Irrigation Systems
- Natural Gas Pipeline Monitoring
- Grain Processing
- Industrial Pressure Monitoring

SPECIFICATIONS									
Performance Data			Environmental Data		Electrical Data (Voltage)				
	Ranges	Ranges	Operating ³ Temperature °F (°C)	-40 to + 185 (-40 to +85)	Circuit	3-Wire (Exc, Out, Com)			
	25 PSI & Higher	Less than 25 PSI	Storage Temperature °F (°C)	-40 to + 185 (-40 to +85)	Excitation	9 to 30 VDC			
Accuracy RSS ¹ (at constant temp) ²	±0.13% FS	±0.25% FS	Shock ⁶	200g	Output ⁵	0.1 to 5.1 VDC for Ranges ≥ 25 PSI ⁶			
Non-Linearity, BFSL	±0.10% FS	±0.22% FS	Vibration ⁷	20g	Output Impedance	100 ohms			
Hysteresis	0.08% FS	0.10% FS	Environmental Protection NEMA 4/IP65		Power Consumption	<0.15 watts (approx. 5mA @ 24 VDC)			
Non-Repeatability	0.02% FS	0.05% FS	Physical Description		Electrical Data (Current)				
Thermal Effects			Case	Die Cast Aluminum	Circuit	2-Wire			
Compensated Range °F	-4 to +176	-4 to 176	Electrical Connections	Two 1/2" Internal Conduit Ports	Output ⁷	4 to 20mA ⁸ for All Ranges			
Compensated Range °C	-20 to 80	-20 to ±80	Pressure Fittings	1/4" NPT External	External Load	0 to 800 ohms			
Zero Shift %FS/100°F	1.0	1.0	Weight (approx.)	13.4 Ounces	Minimum supply voltage (VDC)	9 + 0.02 x (Resistance of receiver plus line).			
Zero Shift %FS/100°C	±0.9	±1.8	Pressure Media		Maximum supply voltage (VDC)	30 + 0.004 x Resistance of receiver plus line).			
Span Shift %FS/100°F	1.5	±1.5	Liquids and gases compatible with 17-	4 PH Stainless Steel.4	1 RSS of Non-Linearity, Hysteresis, and Non-Repeatability. 2. Units calibrated at nominal 70°F. Maximum thermal error computed from this datum. 3. Operating temperature limits of the electronics only. Pressure media temperature may be considerably higher or lowe. 4. Note: Hydrogen not recommended for use with 17-4 PH Stainless Steel. Specifications subject to change without notice. 5. Calibrated into a 50% chm load, operable into a 5000 ohm load or greater. 6. Zero output factory set to within ±25 mV. 7. Calibrated and factory with a 24 VDC loop supply voltage and a 250 ohm load. 8. Zero output factory set to within ±0.08 mA 5 pan coutput factory set to within ±10.08 mA 5 pan coutput factory set to within ±16 mA				
Span Shift %FS/100°C	1.4	±1.4	Environmental Protection	Weather Resistant					
Long Term Stability	0.5% FS/YR	0.5% FS/YR	Physical Description						
Warm-up Shift	0.1% FS Total	0.1% FS Total	Case	Stainless Steel & Valox					

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SSP-256 Rev. H 02/16/2010



ORDERING INFORMATION												
	2 5	6 1 -] –] -				
	Model	Range Code		Code	Pressure Type		Pressure Fitting		Output		Options	
	2561 =	256	256 See Table 1 Below		G	Gauge	Ranges <25 PSI		Ranges < 25 PSI		C	Calibration Certificate
Table 1	Table 1. Range Specification						2M	1/4″NPT Male	11	4-20 mA		,
-	NGE PSI			RANGE		BAR	1M	1/8" NPT Male	Range	s ≥25 PSI		
	DDE		1 31		57111		Ranges ≥ 25 PSI		11	4-20 mA		
00)1P	0 to 1		1R6B		0 to 1.6	2M	1/4" NPT Male	22	0.1 - 5.1 VDC	1	
00)2P	0 to 2	0 to 2			0 to 4	4M	1/2" NPT (Male)			•	
00)5P	0 to 5	0 to 5			0 to 6	2F	1.4" NPT (Female)	1			
01	10P	0 to 10		010B		0 to 8		•	_			
01	15P	0 to 1	0 to 15			0 to 16						
02	25P	0 to 25	0 to 25			0 to 25						
05	50P	0 to 50		040B		0 to 40						
10	00P	0 to 100		060B		0 to 60						
	50P	0 to 15		100B	_	0 to 100						
)0P	0 to 20		160B		0 to 160						
	50P	0 to 25		250B	-	0 to 250						
	00P	0 to 50		400B	_	0 to 400						
)0P	0 to 60		700B	(0 to 700						
)CP	0 to 100										
)CP	0 to 300			<u> </u>							
50)CP	0 to 500	00									

Ordering Example: 2561001PG2M11C = Model 256, 0 to 1PSI, Gauge Pressure, 1/4" NPT Pressure Fitting, 4 to 20 MA Output, Calibration Certificate

0 to 10000