## 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

8. Zero output factory set to within ±0.08 mA

Span output factory set to within ±16 mA

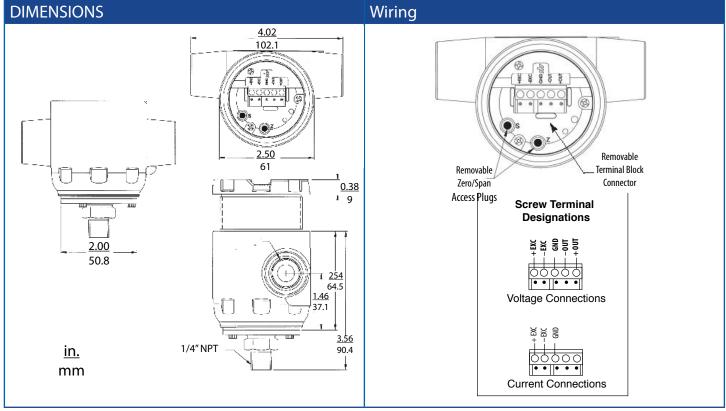
- Grain Processing
- Industrial Pressure Monitoring

SPECIFICATIONS									
Performance Data			Environmental Data		Electrical Data (Voltage)				
	Ranges Ranges		Operating <sup>3</sup> 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 RSS¹ (at constant temp)²	±0.13% FS	±0.25% FS	Shock <sup>6</sup>	200g	Output <sup>5</sup>	0.1 to 5.1 VDC for Ranges ≥ 25 PSI <sup>6</sup>			
Non-Linearity, BFSL	-Linearity, BFSL ±0.10% FS =		Vibration <sup>7</sup>	20g	Output Impedance	100 ohms			
Hysteresis	esis 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 <sup>7</sup>	4 to 20mA <sup>8</sup> 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	PF 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.				
Span Shift %FS/100°C 1.4		±1.4	Environmental Protection	Weather Resistant	Operating temperature limits of the electronics only. Pressure media temperature may be considerably higher or lower.				
ong Term Stability 0.5% FS/YR 0.5% FS/YR			Physical Description	•	Note: Hydrogen not recommended for use with 17-4 PH Stainless Steel.  Specifications subject to change without notice.				
Warm-up Shift	0.1% FS Total	0.1% FS Total	Case	Stainless Steel & Valox	S. Galibrated into a SOK ohm load, operable into a 5000 ohm load or greater.     G. Zero output factory set to within ±25 mV.     Span (Full Scale) output factory set to within ±50 mV.     C. Galibrated a factory with a 24 MC loop supoly workage and a 250 ohm load.				

# Model 256

## **Pressure Transducers**

SSP-256 Rev. H 02/16/2010



O	ORDERING INFORMATION												
		2 5 6 1											
		Model Range Code 2561 = 256 See Table 1 Below		Pressure Type		Pressur	Pressure Fitting		Output		Options		
				ble 1 Below	G	Gauge Ranges < 25 PSI		<25 PSI	Ranges < 25 PSI		C	Calibration Certificate	
	Table 1. Range Specification						2M	1/4" NPT Male	11	4-20 mA			
		NGE	E PSI		RANGE		BAR	1M	1/8" NPT Male	Ranges ≥25 PSI			
		DE			CODE	57.11.		Ranges	Ranges ≥ 25 PSI		4-20 mA		
	00	001P         0 to 1         1R6B           002P         0 to 2         004B           005P         0 to 5         006B           010P         0 to 10         010B           015P         0 to 15         016B           025P         0 to 25         025B           050P         0 to 50         040B           100P         0 to 100         060B           150P         0 to 150         100B           200P         0 to 200         160B           250P         0 to 250         250B           500P         0 to 500         400B		1R6B	0 to 1.6		2M	1/4" NPT Male	22	0.1 - 5.1 VDC			
	00			004B		0 to 4	4M	1/2" NPT (Male)		-			
	00				006B		0 to 6	2F	1.4" NPT (Female)	1			
	01			)	010B		0 to 8						
	01			5	016B		0 to 16	ļ					
	02					0 to 25							
							0 to 40						
						├─	0 to 60	ļ					
						<del></del>	to 100						
					_	) to 160							
						├─	) to 250	ļ					
				<u> </u>	) to 400								
	60	-	0 to 600 700B 0 to 700		) to 700								
		CP	0 to 100			<u> </u>							
		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