Model 264 Very Low Differential Pressure Transducer Unidirectional Ranges: 0 - 0.1 to 0 - 100 in. W.C. Bidirectional Ranges: $0 - \pm 0.5$ to $0 - \pm 50$ in. W.C. Air or Non-Conducting Gas 3-year Unconditional Warranty

etra Systems 264 pressure transducers sense differential or gauge (static) pressure and convert this pressure difference to a proportional electrical output for either unidirectional or bidirectional pressure ranges. The 264 Series is offered with a high level analog 0 to 5 VDC or 4 to 20 mA output.

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HIGH OVERPRESSURE

Up to 10 pSI

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Used in Building Energy Management Systems, these transducers are capable of measuring pressures and flows with the accuracy necessary for proper building pressurization and air flow control.

The 264 Series transducers are available for air pressure ranges as low as 0.1 in. W.C. full scale to 100 in. W.C. full scale. Static standard accuracy is ±1.0% full scale in normal ambient temperature environments, but higher accuracies are available. The units are temperature compensated to 0.033% FS/°F thermal error over the temperature range of 0°F to +150°F.

The Model 264 utilizes an improved all stainless steel micro-tig welded sensor. The tensioned stainless steel diaphragm and insulated stainless steel electrode, positioned close to the diaphragm, form a variable capacitor. Positive pressure moves the diaphragm toward the electrode, increasing the capacitance. A decrease in pressure moves the diaphragm away from the electrode, decreasing the capacitance. The change in capacitance is detected and converted to a linear DC electrical signal by Setra's unique electronic circuit.

The tensioned sensor allows up to 10 PSI overpressure (range dependent) with no damage to the unit. In addition, the parts that make up the sensor have thermally matched coefficients, which promote improved temperature performance and excellent long term stability.

Applications

- Heating, Ventilating and Air Conditioning (HVAC)
- Energy Management **Systems**
- Variable Air Volume and Fan Control (VAV)
- Environmental Pollution Control
- Lab and Fume Hood Control
- Oven Pressurization and **Furnace Draft Controls**

Features

- Up to 10 PSI Overpressure (Range Dependent)
- Installation Time Minimized with Snap Track Mounting and Easy-To-**Access Pressure Ports and Electrical Connections**
- 0 to 5 VDC or 2-wire 4 to 20 mA Analog Outputs Are **Compatible with Energy Management Systems**
- Reverse Wiring Protection
- Internal Regulation Permits Use with Unregulated DC **Power Supplies**
- Fire Retardent Case (UL 94 V-0 Approved)
- Meets (€ Conformance **Standards**

When it comes to a product to rely on - choose the Model 264. When it comes to a company to trust - choose Setra.



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

U.S. Patent nos. 4093915; 4358814; 4434203; 6019002; 6014800. Other Patents Pending.

Performance Data

I eller bu				
	<u>Standard</u>	Optio	nal	
Accuracy [*] RSS(at constant temp)	±1.0% FS	±0.4% FS	±0.25% FS	
Non-Linearity, BFSL	$\pm 0.96\%$ FS	±0.38% FS	±0.22% FS	
Hysteresis	0.10% FS	0.10% FS	0.10% FS	
Non-Repeatability	0.05% FS	0.05% FS	0.05%FS	
Thermal Effects**				
Compensated Range °F(°C)	0 to +150 (-18 to +65)		+65)	
Zero/Span Shift %FS/°F(°C)	0.033 (0.06)			
Maximum Line Pressure	10 psi			
Overpressure	Up to 1			
		Dependent)	
Long Term Stability	0.5% F	5/1 YR		
		Zer	o Offset	
Position Effect	<u>Range</u>	(%	6FS/G)	
(Unit is factory calibrated at 0	g To 0.5	in. WC	0.60	
effect in the vertical position.) To 1.0	in. WC	0.50	
	To 2.5	in. WC	0.22	
	To 5 in	. WC	0.14	
* RSS of Non-Linearity Hysteresis and Non-Repeatability				

RSS of Non-Linearity, Hysteresis, and Non-Repeatability. **Units calibrated at nominal 70°F. Maximum thermal error computed from this datum

of the product in the application.

Model 264 Specifications Environmental Data Temperature

Operating* °F (°C) 0 to +175 (-18 to +79)Storage °F (°C) -65 to +250 (-54 to +121) *Operating temperature limits of the electronics only. Pressure media temperatures may be considerably higher.

Physical Description

Case	Fire-Retardant Glass Filled
	Polyester (UL 94 V-0 Approved)
Mounting	Four screw holes on removable
	zinc plated steel base (designed
	for 2.75" snap track)
Electrical Connection	Screw Terminal Strip
Pressure Fittings	3/16" O.D. barbed brass
	pressure fitting for 1/4" push-on
	tubing
Zero and Span Adjustments	Accessible on top of case
Weight (approx.)	10 ounces
Due e e e e e e e e e e e e e e e e e e	

Pressure Media

Typically air or similar non-conducting gases.

Specifications subject to change without notice.

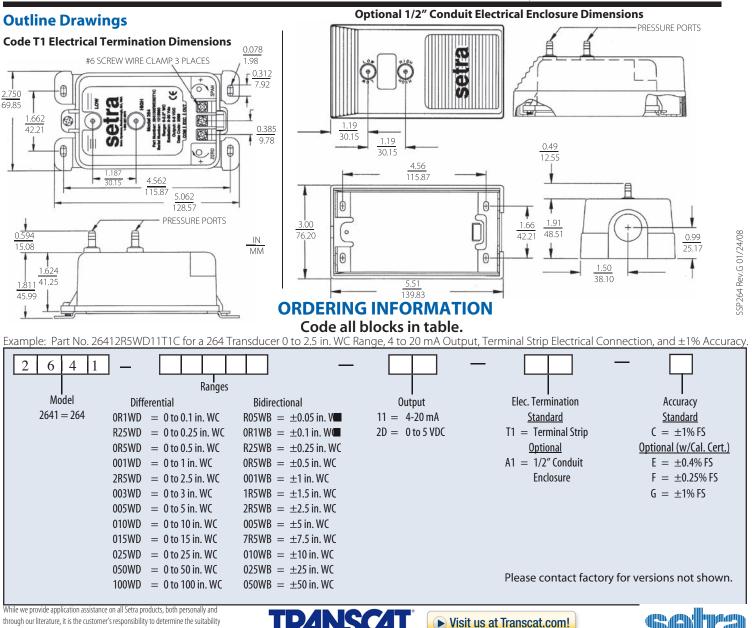
Electrical Data (Voltage)

Circuit	3–Wire (Com, Exc, Out)		
Excitation	9 to 30 VDC		
Output*	0 to 5 VDC**		
Bidirectional output at zero			
pressure:	2.5 VDC**		
Output Impedance	100 ohms		
*Calibrated into a 50K ohm load, operable into a 5000 ohm load or greater.			
**Zero output factory set to within ±50mV (±25 mV for optional accuracies).			
**Span (Full Scale) output factory set to within \pm 50mV. (\pm 25 mV for			
optional accuracies).			

Electrical Data (Current)

Circuit	2-Wire	
Output*	4 to 20mA**	
Bidirectional output at zero		
pressure:	12mA**	
External Load	0 to 800 ohms	
Minimum supply voltage (VDC) = $9+0.02 \text{ x}$		
(Resistance of receiver plus I	ine).	
Maximum supply voltage (V	DC) = 30 + 0.004 x	
(Resistance of receiver plus I *Calibrated at factory with a 24 VD	ine). Cloop supply voltage and a 250 o	

- and a 250 ohm load. factory with a 24 VDC loop supply **Zero output factory set to within ± 0.16 mÅ (± 0.08 mA for optional accuracies).
- **Span (Full Scale) output factory set to wtihin \pm 0.16mA (\pm 0.08 mA for optional accuracies)



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