

Model 264

Very Low Differential Pressure Transducer



Model 264
w/ Conduit Cover Option



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

Used in Building Energy Management Systems, the Model 264 measures pressures and flows with the accuracy necessary for proper management of building pressurization and air flow control.

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

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 Retardant Case (UL 94 V-0 Approved)
- Meets CE Conformance Standards

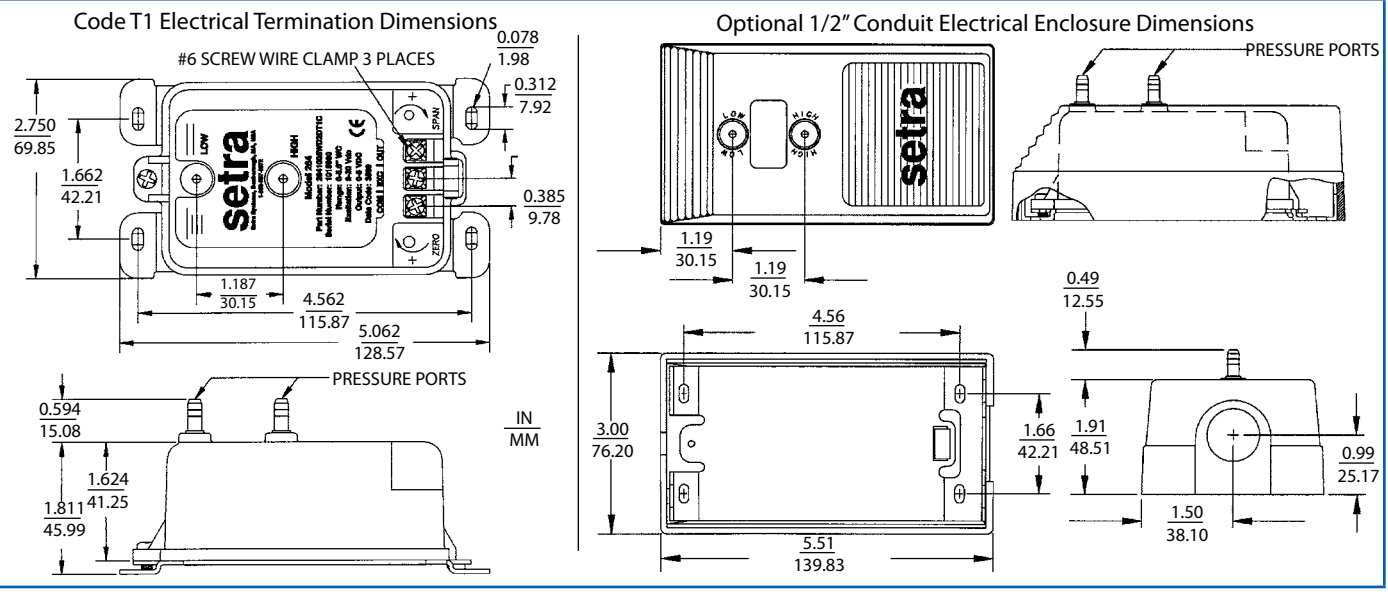
APPLICATIONS

- 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

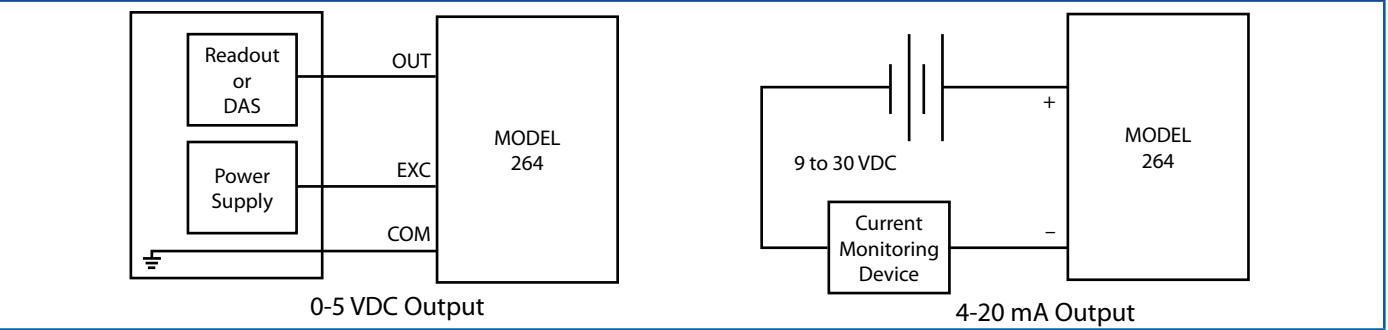
SPECIFICATIONS

Performance Data			Environmental Data		Electrical Data (Voltage)	
	Standard	Optional	Operating Temperature ³ °F (°C)	0 to +175 (-18 to +79)	Circuit	3-Wire (Com, Out, Exc)
Accuracy RSS ¹ (at constant temp)	$\pm 1.0\%$ FS	$\pm 0.4\%$ FS $\pm 0.25\%$ FS	Storage Temperature °F (°C)	-65 to +250 (-54 to +121)	Excitation/ Output ⁴	9 to 30 VDC / 0 to 5 VDC ^{5,6}
Non-Linearity, BFSL	$\pm 0.96\%$ FS	$\pm 0.38\%$ FS $\pm 0.22\%$ FS	Physical Description		Output Impedance	100 ohms
Hysteresis	0.10% FS	0.10% FS 0.10% FS	Case	Fire-Retardant Glass Filled Polyester (UL 94V-0 Approved)	Bidirectional output at zero pressure	2.5 VDC ^{5,6}
Physical Description			Electrical Connection	Screw Terminal Strip	Electrical Data (Current)	
Compensated Range °F (°C)	0 to +150 (-18 to +65)		Mounting	4 screw holes on removable zinc plated steel base (designed for 2.75" snap track)	Circuit	2-Wire
Zero/ Span Shift %FS/100°F(50°C)	± 0.033 (± 0.06)		Pressure Fittings	3/16" O.D. barbed brass for 1/4" pushon tubing	Output ²	4 to 20 mA ^{8,9}
Maximum Line Pressure	10 PSI		Zero and Span Adjustments	Accessible on top of case	External Load	0 to 800 ohms
Overpressure	Up to 10 PSI (Range Development)		Weight (approx.)	10 Ounces	Minimum Supply Voltage (VDC)	9 + 0.02 x (resistance of receiver plus line)
Long Term Stability	0.5% FS/1 YR		Pressure Media		Maximum Supply Voltage (VDC)	30 + 0.004 x (resistance of receiver plus line)
			Typically air or similar non-conducting gases.		Bidirectional output at zero pressure	12 mA ^{8,9}
Position Effect	Range	%FS/G	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 temperatures may be considerably higher. ⁴ Calibrated into a 50k ohm load, operable into a 5000 ohm load or greater. ⁵ Zero output factory set to within ± 50 mV (± 25 mV for optional accuracies). ⁶ Span (Full Scale) output factory set to within ± 50 mV. (± 25 mV for optional accuracies). ⁷ Calibrated at factory with a 24 VDC loop supply voltage and a 250 ohm load. ⁸ Zero output factory set to within ± 0.16 mA (± 0.08 mA for optional accuracies). ⁹ Span (Full Scale) output factory set to within ± 0.16 mA (± 0.08 mA for optional accuracies). Specifications subject to change without notice.			
Unit is factory calibrated at 0g effect in the vertical position	0.1 in. WC	2.3				
	0.25 in. WC	1				
	0.5 in. WC	0.5				
	1.0 in. WC	0.3				
	2.5 in. WC	0.2				
	10 in. WC	0.15				

DIMENSIONS



WIRING



ORDERING INFORMATION

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Model	Range Code	Output	Elec. Termination			Accuracy ¹		
2641 = 264	See Table 1 Below	11 4-20 mA	Std.	T1	Terminal Strip	Std.	C	±1% FS
		2D 0-5 VDC	Opt.	A1	1/2 in. Conduit Enc.	Opt.	E	±0.4% FS
						Opt.	F	±0.25% FS
						Opt.	G	±1% FS

RANGE CODE	DIFFERENTIAL		RANGE CODE	BIDIRECTIONAL	
	in. W.C.			in. W.C.	
0R1WD	0 to 0.1		0R5WB	±0.05	
R25WD	0 to 0.25		0R1WB	±0.1	
0R5WD	0 to 0.5		R25WB	±0.25	
001WD	0 to 1		0R5WB	±0.5	
1R5WD	0 to 1.5		001WB	±1	
2R5WD	0 to 2.5		1R5WB	±1.5	
003WD	0 to 3		2R5WB	±2.5	
005WD	0 to 5		005WB	±5	
010WD	0 to 10		7R5WB	±7.5	
015WD	0 to 15		010WB	±10	
025WD	0 to 25		025WB	±25	
050WD	0 to 50		050WB	±50	
100WD	0 to 100				

1. Optional Accuracies include Calibration Certificate

Ordering Example: 26412R5WD11T1C= Model 264, 0 to 2.5 in. W.C. Range, 4 to 20 mA Output, Terminal Strip Electrical Connection, and ±1% Accuracy