Model 264

Very Low Differential Pressure Transducer





With millions of sensors installed world wide, Setra's 264 is the "standard" for low differential pressure measurement in HVAC building automation, high accuracy pharmaceutical and healthcare facilities. The 264 very low differential pressure transducer uses a dead-ended stainless steel welded capacitive sensing element that requires minimal amplification and delivers excellent accuracy and longterm stability in critical installations. The 264 has a 3 year, unconditional warranty, giving the end-user peace of mind well beyond the initial commissioning phase and guarantees performance well after the BAS warranty. The 264 utilizes a robust design that offers brass barbed fittings, a Snap Track Mount and an optional conduit cover for easy and consistent installation.

The Industry "Standard" Pressure Transducer

The 264 has been a consistent and trusted HVAC sensor for over two decades. The reputation of reliability and quality with exceptional delivery time has helped the 264 remain the trusted choice for any low differential pressure applications.

Convenient Installation

The 264 is available in both a wall and conduit versions providing the installer with flexible mounting options. The base mount allows the sensor to be installed anywhere, whereas the DINrail configuration is designed to protect the unit and wiring in difficult installations.

The Setra Sensor

The core technology of the 264 is the all stainless steel capacitive sensing element. Setra designs and manufactures all of their sensing elements resulting in full control over the process and quality of every single sensor. The welded dead-ended capacitive sensors requires minimal amplification and delivers excellent accuracy and longterm stability. Setra's technology has been used in over 8 million installations and has the highest field acceptance rate in the industry.

- **Industry Standard**
- **Wall Mount & Conduit Options Available**
- **3 Year, Unconditional Warranty**

Model 264 Features:

- Up to 10 PSI Overpressure
- Installation Time Minimized w/ Mounting Options
- 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
- Energy Management Systems
- Variable Air Volume and Fan Control (VAV)
- Environmental Pollution Control
- Lab & Fume Hood Control

Phone: 800-257-3872 • Fax: 978-264-0292 • setra.com © Setra Systems, Inc. All rights reserved. The Setra Systems name and logo are registered trademarks of Setra Systems, Inc.

Model 264

Very Low Differential Pressure Transducer

ORDERING INFORMATION

2 6 4 1 – [ ][ ][ ][ ][ ] – [ ][ ] – [ ][ ] – [ ]

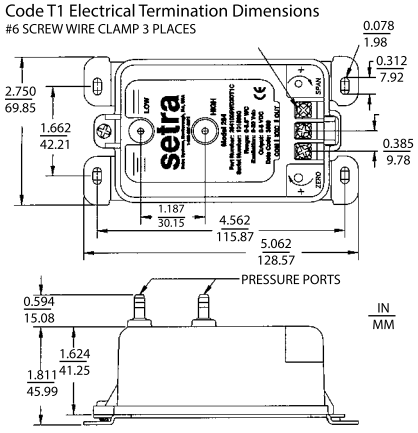
Model	Range Code				Output		Electrical Termination		Accuracy[1]	
2641 = Model 264	Unidirectional		Bidirectional		11	4-20 mA	T1	Terminal Strip	C	±1% FS
	0R1WD	0 to 0.1"W.C.	R05WB	±0.05"W.C.	2D	0-5 VDC	A1	1/2 in. Conduit Enclosure	E	±0.4% FS
	R25WD	0 to 0.25"W.C.	0R1WB	±0.1"W.C.					F	±0.25% FS
	0R5WD	0 to 0.5"W.C.	R25WB	±0.25"W.C.					G	±1% FS
	001WD	0 to 1.0"W.C.	0R5WB	±0.5"W.C.						
	1R5WD	0 to 1.5"W.C.	001WB	±1"W.C.						
	2R5WD	0 to 2.5"W.C.	1R5WB	±1.5"W.C.						
	003WD	0 to 3.0"W.C.	2R5WB	±2.5"W.C.						
	005WD	0 to 5.0"W.C.	005WB	±5.0"W.C.						
	010WD	0 to 10.0"W.C.	7R5WB	±7.5"W.C.						
	015WD	0 to 15.0"W.C.	010WB	±10.0"W.C.						
	025WD	0 to 25.0"W.C.	025WB	±25.0"W.C.						
	050WD	0 to 50.0"W.C.	050WB	±50.0"W.C.						
	100WD	0 to 0.1"W.C.								

1. Optional Accuracies include Calibration Certificate

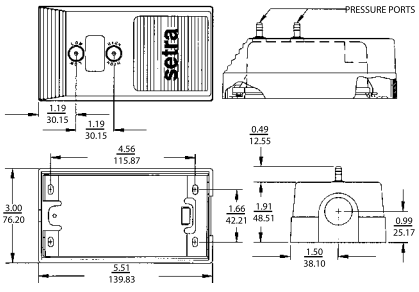
Ordering Example: 26412R5WD11T1C= Model 264, 0 to 2.5 in. W.C. Range, 4 to 20 mA Output, Terminal Strip Electrical Connection, and ±1% Accuracy

DIMENSIONS

Code T1 Electrical Termination Dimensions
#6 SCREW WIRE CLAMP 3 PLACES



Optional 1/2" Conduit Electrical Enclosure Dimensions



GENERAL SPECIFICATIONS

Performance Data				Physical Description	
	Standard	Optional		Case	Fire-Retardant Glass Filled Polyester (UL 94 V-0 Approved)
Accuracy RSS[1] (at constant temp)	±1.0% FS	±0.4% FS	±0.25% FS	Electrical Connection	Screw Terminal Strip
Non-Linearity, BFSL	±0.96% FS	±0.38% FS	±0.22% FS	Mounting	4 screw holes on removable zinc plated steel base (designed for 2.75" snap track)
Hysteresis	0.10% FS	0.10% FS	0.10% FS	Pressure Fittings	3/16" O.D. barbed brass for 1/4" push on tubing
Physical Description				Zero and Span Adjustments	Accessible on top of case
Compensated Range °F (°C)	0 to +150 (-18 to +65)			Weight (approx.)	10 Ounces
Zero/ Span Shift %FS/100°F(50°C)	±0.033 (±0.06)			**Electrical Data (Voltage)**	
Maximum Line Pressure	10 PSI			Circuit	3-Wire (Com, Out, Exc)
Overpressure	Up to 10 PSI (Range Development)			Excitation/ Output[4]	9 to 30 VDC / 0 to 5 VDC[5,6]
Long Term Stability	0.5% FS/1 YR			Output Impedance	100 ohms
Environmental Data				Bidirectional output at zero pressure	2.5 VDC[5,6]
Operating Temperature[3] °F (°C)	0 to +175 (-18 to +79)			**Electrical Data (Current)**	
Storage Temperature °F (°C)	-65 to +250 (-54 to +121)			Circuit	2-Wire
Pressure Media				Output[2]	4 to 20 mA[8,9]
Typically air or similar non-conducting gases.				External Load	0 to 800 ohms
Position Effect				Minimum Supply Voltage (VDC)	9 + 0.02 x (resistance of receiver plus line)
Unit is factory calibrated at 0g effect in the vertical position	Range	%FS/G		Maximum Supply Voltage (VDC)	30 + 0.004 x (resistance of receiver plus line)
	0.1 in. WC	2.3		Bidirectional output at zero pressure	12 mA[8,9]
	0.25in. 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			

[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 ±50mV (±25 mV for optional accuracies).
[6] Span (Full Scale) output factory set to within ±50mV. (±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 ±0.16mA (±0.08 mA for optional accuracies).
[9] Span (Full Scale) output factory set to within ±0.16mA (±0.08 mA for optional accuracies).

Specifications subject to change without notice.

Phone: 800-257-3872 • Fax: 978-264-0292 • setra.com © Setra Systems, Inc. All rights reserved. The Setra Systems name and logo are registered trademarks of Setra Systems, Inc.