Model 267

Very Low Differential Pressure Transducer

Features

- Optional 3.5 Digit LCD Display w/ 0.5% FS Accuracy
- NEMA 4 Rated Housing
- Optional Static Pressure Probe
- PG-9, PG-13 or Conduit Electrical Termination
- 24 VAC or 24 VDC Excitation
- CE & RoHS Compliant
- Suitable for Harsh Environments
- Optional LCD Display
- ±0.25%, 0.4%, 0.5%, 1% FS Accuracy

Applications

- HVAC Systems
- Energy Management Systems
- Static Duct Pressure
- Cleanroom Pressure
- Oven Pressurization & Furnace Draft Controls

Setra's Model 267 is the most rugged high accuracy, low differential pressure transducer on the market. It delivers accuracies of ±1% FS (without display), ±0.5% FS (with display), and optional ±0.25% FS and ±0.4% FS accuracies, and pressure ranges from 0.1" W.C. up to 100" W.C. The 267 is housed in a robust, NEMA 4 rated enclosure and has an optional static pressure probe reducing installation and material costs. The 267 is offered with an optional LCD display and a standard accuracy of ±0.5% making it ideal for high accuracy Pharmaceutical applications.

Customization is standard

The 267, unlike most competitors, offers many mechanical and electrical options that can be integrated into existing designs. The optional 0.25" diameter pressure probe is made of sturdy extruded aluminum and is designed with baffles to prevent velocity pressure errors which saves money and reduces time on the job site.

Robust enclosure for difficult applications

The 267 is housed in a NEMA 4 rated housing and is built to withstand harsh environments. The 267 is available in both wall and duct mount providing the installer with flexible mounting options. The wall mount allows the sensor to be installed anywhere, whereas the duct probe configuration is designed to maximize space efficiency in difficult applications.

The Setra sensor

The core technology of the 267 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.

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Specifications

Performance data

	Standard	Optional	
Accuracy RSS[1] (at constant temp)	±1.0% FS	±0.4% FS	±0.25% FS
Non-linearity, BFSL	±0.98% 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

Position effect: consult factory

Physical description

Case	IP65/NEMA 4 Plastic Glass-Filled Polycarbonate UL94V-O Case
Electrical connection	Screw Terminal Strip Inside of Case
Electrical Terminations	PG-9/PG13.5 Strain Relief, 1/2" Conduit Opening, or 9 Pin D-Sub Connector*
Zero and Span Adjustments	Accessible Inside of Case
Weight (approx.)	9.0 Ounces (255 grams) 9.5 Ounces (Duct Probe Assembly)

Electrical data (Voltage)

Circuit	3-Wire (Exc, Gnd, Sig), Protected from Miswiring
Excitation (for 0-5 VDC Output)	9 to 30 VAC /12 to 40 VDC
Excitation (for 0-10 VDC Output)	11 to 30 VAC /13 to 40 VDC
Output[3]	0 to 5 VDC[5] / 0 to 10 VDC[5]

Electrical data (current)

Circuit	2-Wire, Protected from Miswiring
Output[7]	4 to 20 mA[4]
Bidirectional Output at Zero	12 mA
Min. Loop Supply Voltage (VDC)	9 + 0.02 x (Resistance of Receiver plus line)
Max. Loop Supply Voltage (VDC)	30 + 0.004 x (Resistance of Receiver plus line)

Pressure media

Thermal Effects[2,3]	
Compensated Range °F (°C)	+40 to +150 (+5 to +65)
Zero/Span Shift %FS/°F (°C)	±0.033 (±0.06)
Maximum Line Pressure	10 PSI
Overpressure	Up to 10 PSI (Range Dependent)
Long-Term Stability	0.1% FS Total

Environmental data

Operating[6] Temperature °F (°C)	0 to +150 (-18 to +65)
Storage Temperature °F (°C)	-65 to +180 (-54 to +82)

[1] RSS of Non-Linearity, Hysteresis, and Non-Repeatability.
[2] Units calibrated at nominal 70˚F. Maximum thermal error computed from this datum.
[3] Calibrated into a 50K ohm load, operable into a 5000 ohm load or greater.
[4] Zero output factory set to within ±0.16 mA (±0.08 mA for optional accuracies). Span (Full Scale) output factory set to within ±0.16 mA (±0.08mA for optional accuracy).
[5] Zero output factory set to within ±50mV (±25 mV for optional accuracies).
Span (Full Scale) output factory set to within ±50mV (±25 mV for optional accuracies)
[6] Operating temperature limits of the electronics only. Pressure media temperatures may be considerably higher.
[7] Calibrated at factory with a 24 VDC loop supply voltage and a 250 ohm load.

Ordering information

Example part number: 2671R25WD11G2CN

0 to .25 in. WC Unidirectional Range, 4-20 mA Output, 3/16" Barbed Brass Fitting, PG-9 Electrical Termination, 1% Accuracy with LCD Display

2	6	7	1	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
[1]				[2]					[3]		[4]		[5]	

[1]

Model	
2671	267

[2]

Range[1] (unidirectional)	
0R1WD	0 to 0.1 "W.C.
R25WD	0 to 0.25"W.C.
0R5WD	0 to 0.5"W.C.
001WD	0 to 1"W.C.
1RSWD	0 to 1.5"W.C.
2R5WD	0 to 2.5"W.C.
005WD	0 to 5.0"W.C.
010WD	0 to 10"W.C.
025WD	0 to 25"W.C.
050WD	0 to 50"W.C
100WD	0 to 100"W.C.
025LD	0 to 25 Pa
050LD	0 to 50 Pa
100LD	0 to 100 Pa
250LD	0 to 250 Pa
500LD	0 to 500 Pa
10CLD	0 to 1000 Pa
25CLD	0 to 2500 Pa
40CLD	0 to 4000 Pa
70CLD	0 to 7000 Pa

or

[2]

Pressure range[1] (bidirectional)	
0R1WB	±0.1" WC
R25WB	±0.25" WC
0R5WB	±0.5" WC
001WB	±1" WC
1RSWB	±1.5"W.C.
2R5WB	±2.5"W.C.
005WB	±5.0"W.C.
010WB	±10"W.C.
025WB	±25"W.C.
050WB	±50"W.C.
100WB	±100"W.C.
025LB	±25 Pa
050LB	±50 Pa
100LB	±100 Pa
250LB	±250 Pa
500LB	±500 Pa
10CLB	±1000 Pa
25CLB	±2500 Pa
40CLB	±4000 Pa
70CLB	±7000 Pa

[3]

Output	
11	4-20 mA
2D	0-5 VDC
2E	0-5 VDC

[4]

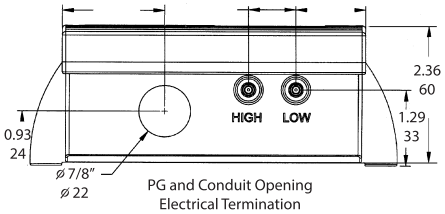
Pressure Fitting/Elec. Termination	
3/16" Barbed Brass Fitting	
G1	PG-13.5 Strain Relief
G2	PG9 Strain Relief
D9[1]	9 pin D-Sub Conn.
A1	1/2" Conduit Opening
1/4"NPTF Brass Fitting	
1K	PG-9 Strain Relief
2K	PG-13.5 Strain Relief
9K	9 Pin D-Sub Conn.
AK	1/2" Conduit Opening
Static Duct Probe	
1P	1/2" Conduit Opening
2P	PG-13.5 Strain Relief
9P	9 Pin D-Sub Conn..
AP	1/2" Conduit Opening

[5]

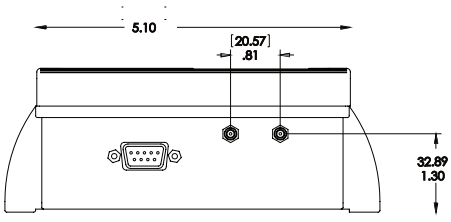
Accuracy (Full Scale)	
CN	±1% FS with no LCD Display
CD	±1% FS with LCD Display
EN	±0.4% FS* with no LCD Display
FN	±0.25% FS* with no LCD Display
GN	±1% FS* with no LCD Display
HD	±0.5% FS* with LDC Display
ED	±0.4% FS* with LDC Display
FD	±0.25% FS* with LDC Display

*Includes Cal. Cert

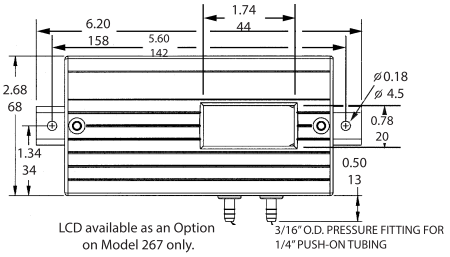
Dimensions



PG and Conduit Opening
Electrical Termination

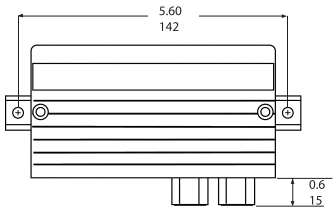


9 pin D-sub Connector
Electrical Termination

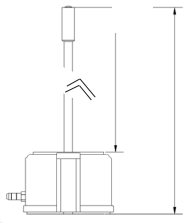


LCD available as an Option
on Model 267 only.

3/16" O.D. PRESSURE FITTING FOR
1/4" PUSH-ON TUBING



1/4" NPT Brass Fitting



Static Duct Probe

SSP267 Rev. K 11/2018

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