

Model 267

Very Low Differential Pressure Transducer

Setra's Model 267 is the most rugged high accuracy, low differential pressure transducer on the market. It delivers accuracies of $\pm 1\%$ FS (without display), $\pm 0.5\%$ FS (with display), and optional $\pm 0.25\%$ FS and $\pm 0.4\%$ 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 $\pm 0.5\%$ 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.



- Suitable for Harsh Environments
- Optional LCD Display
- ±0.25%, 0.4%, 0.5%, 1% FS Accuracy

Model 267 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

Applications:

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

Model 267

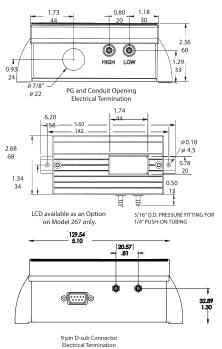
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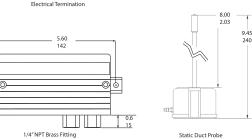


ORDERING INFORMATION

| 2 6 7 1 |] | - | | | | | - | - | | | - | | - | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|---------------|------------|----------------|--------------|---------------|----------|------------------------------------|----------------------|----------------------------|-----------------------|----|--------------------------------|
| Model | Range Output | | | | | | | | Pressure Fitting/Elec. Termination | | Accuracy (Full Scale) | | | |
| 2671 = 267 | Unidirectional | | Bidirectional | | Unidirectional | | Bidirectional | | 11 | 4-20 mA | 3/16" Barbed Brass Fitting | | CN | ±1% FS with no LCD Display |
| | OR1WD | 0 to 0.1 "W.C. | OR1WB | ±0.1"W.C. | 025LD | 0 to 25 Pa | 025LB | ±25 Pa | 2D | 0-5 VDC | G1 | PG-13.5 Strain Relief | EN | ±0.4% FS* with no LCD Display |
| | R25WD | 0 to 0.25"W.C. | R25WB | ±0.25"W.C. | 050LD | 0 to 50 Pa | 050LB | ±50 Pa | 2E | 0-10 VDC | G2 | PG9 Strain Relief | FN | ±0.25% FS* with no LCD Display |
| | 0R5WD | 0 to 0.5"W.C. | 0R5WB | ±0.5"W.C. | 100LD | 0 to 100 Pa | 100LB | ±100 Pa | | | D91 | 9 pin D-Sub Conn. | GN | ±1% FS* with no LCD Display |
| | 001WD | 0 to 1"W.C. | 001WB | ±1.0"W.C. | 250LD | 0 to 250 Pa | 250LB | ±250 Pa | | | A1 | 1/2" Conduit Opening | HD | ±0.5% FS* with LDC Display |
| | 1RSWD | 0 to 1.5"W.C. | 1RSWB | ±1.5"W.C. | 500LD | 0 to 500 Pa | 500LB | ±500 Pa | | | 1/4"NPTF Brass Fitting | | ED | ±0.4% FS* with LDC Display |
| | 2R5WD | 0 to 2.5"W.C. | 2R5WB | ±2.5"W.C. | 10CLD | 0 to 1000 Pa | 10CLB | ±1000 Pa | | | 1K | PG-9 Strain Relief | FD | ±0.25% FS* with LDC Display |
| | 005WD | 0 to 5.0"W.C. | 005WB | ±5.0"W.C. | 25CLD | 0 to 2500 Pa | 25CLB | ±2500 Pa | | | 2K | PG-13.5 Strain Relief | | *includes Cal Cert. |
| | 010WD | 0 to 10"W.C. | 010WB | ±10"W.C. | 40CLD | 0 to 4000 Pa | 40CLB | ±4000 Pa | | | 9K | 9 Pin D-Sub Conn. | | |
| | 025WD | 0 to 25"W.C. | 025WB | ±25"W.C. | 70CLD | 0 to 7000 Pa | 70CLB | ±7000 Pa | | | AK | 1/2" Conduit Opening | | |
| | 050WD | 0 to 50"W.C | 050WB | ±50"W.C. | | | | | | | Static D | uct Probe | | |
| | 100WD | 0 to 100"W.C. | 100WB | ±100"W.C. | | | | | | | 1P | PG-9 Strain Relief | | |
| | | | | | | | | | | | 2P | PG-13.5 Strain Relief | | |
| Only to Formula, Dawley 2010 2010 2110 2110 2110 2110 2110 211 | | | | | | | | | 9P | 9 Pin D-Sub Conn | | | | |
| Ordering Example: Part No. 2671R25WD11G2CN for a 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 | | | | | | | | | AP | 1/2" Conduit Opening | | | | |

DIMENSIONS





GENERAL SPECIFICATIONS

| Performance Data | | | | Physical Description | | | | | | |
|----------------------------------------------|-------------------|---------------|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--|--|--|--|--|
| | Standard Optional | | | Case | IP65/NEMA 4 Plastic Glass-Filled Polycarbonate UL94V-0 Case | | | | | |
| Accuracy RSS ¹ (at constant temp) | ±1.0% FS | ±0.4% FS | ±0.25% FS | Electrical Connection | Screw Terminal Strip Inside of Case | | | | | |
| Non-Linearity, BFSL | ±0.98% FS | ±0.38% FS | ±0.22% FS | Electrical Terminations | PG-9/PG13.5 Strain Relief, 1/2" Conduit Opening, or 9 Pin D-Sub Connector* | | | | | |
| Hysteresis | ±0.10% FS | ±0.10% FS | ±0.10% FS | Zero and Span Adjustments | Accessible Inside of Case | | | | | |
| Non-Repeatability | ±0.05% FS | ±0.05% FS | ±0.05% FS | Weight (approx.) | 9.0 Ounces (255 grams) 9.5 Ounces (Duct Probe Assembly) | | | | | |
| Position Effect: Consult factory | | | | Electrical Data (Current) | | | | | | |
| Pressure Media | | | | Circuit | 2-Wire, Protected from Miswiring | | | | | |
| Thermal Effects ^{2,3} | | | | Output ⁷ | 4 to 20 mA ⁴ | | | | | |
| Compensated Range °F (°C) | +40 to +150 | (+5 to +65) | | Bidirectional Output at Zero | 12 mA | | | | | |
| Zero/Span Shift %FS/°F (°C) | 06) | | Min. Loop Supply Voltage (VDC) | 9 + 0.02 x (Resistance of Receiver plus line) | | | | | | |
| Maximum Line Pressure | 10 PSI | | | Max. Loop Supply Voltage (VDC) | 30 + 0.004 x (Resistance of Receiver plus line) | | | | | |
| Overpressure | Up to 10 PSI | (Range Depend | lent) | Electrical Data (Voltage) | | | | | | |
| Long-Term Stability | 0.1% FS Tota | | | Circuit | 3-Wire (Exc, Gnd, Sig), Protected from Miswirin | | | | | |
| Environmental Da | ta | | | Excitation (for 0-5 VDC Output) | 9 to 30 VAC /12 to 40 VDC | | | | | |
| Operating ⁶ Temperature °F (°C) | 0 to +150 (-1 | 18 to +65) | | Excitation (for 0-10 VDC Output) | 11 to 30 VAC /13 to 40 VDC | | | | | |
| Storage Temperature °F (°C) | -65 to +180 | (-54 to +82) | | Output ³ | 0 to 5 VDC ⁵ / 0 to 10 VDC ⁵ | | | | | |
| 9.45 240 | | | | 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 (±0.08 mA for optional accuracies). 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. | | | | | | |