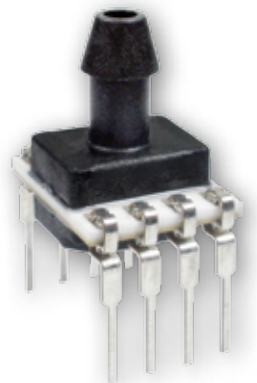




## TruStability® Board Mount Pressure Sensors

**SSC Series—Standard Accuracy, Compensated/Amplified**  
 $\pm 1.6$  mbar to  $\pm 10$  bar |  $\pm 160$  Pa to  $\pm 1$  MPa |  $\pm 0.5$  inH<sub>2</sub>O to  $\pm 150$  psi  
Digital or Analog Output



# TruStability® Board Mount Pressure Sensors

The TruStability® Standard Accuracy Silicon Ceramic (SSC) Series is a piezoresistive silicon pressure sensor offering a ratiometric analog or digital output for reading pressure over the specified full scale pressure span and temperature range.

The SSC Series is fully calibrated and temperature compensated for sensor offset, sensitivity, temperature effects, and non-linearity using an on-board Application Specific Integrated Circuit (ASIC). Calibrated output values for pressure are updated at approximately 1 kHz for analog and 2 kHz for digital.

The SSC Series is calibrated over the temperature range of -20 °C to 85 °C [-4 °F to 185 °F]. The sensor is characterized for operation from a single power supply of either 3.3 Vdc or 5.0 Vdc.

These sensors measure absolute, gage, or differential pressures. The absolute versions have an internal vacuum reference and an output value proportional to absolute pressure. Gage versions are referenced to atmospheric pressure and provide an output proportional to pressure variations from atmosphere. Differential versions allow measurement of pressure between two pressure ports.

The TruStability® pressure sensors are intended for use with non-corrosive, non-ionic gases, such as air and other dry gases. Available options extend the performance of these sensors to non-corrosive, non-ionic liquids for pressure ranges above 40 mbar | 4 kPa | 20 inH<sub>2</sub>O.

All products are designed and manufactured according to ISO 9001 standards.

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## What makes our sensors better?

- Stability and reliability
- Industry-leading accuracy of ±0.25 %FSS BFSL
- Port and housing options simplify integration
- Wide pressure range, from ±1.6 mbar to ±10 bar | ±160 Pa to ±1 MPa | ±0.5 inH<sub>2</sub>O to ±150 psi
- Small package size
- Extremely low power consumption

STABILITY • ACCURACY • FLEXIBILITY • SMALL SIZE

# Features and Benefits

## PROPRIETARY HONEYWELL TECHNOLOGY

Combines high sensitivity with high overpressure and burst pressure while providing industry leading stability—performance factors that are difficult to achieve in the same product; this gives the customer more flexibility in sensor implementation and reduces the customer design requirements for protecting the sensor without sacrificing the ability to sense very small changes in pressure.

## PROTECTED BY MULTIPLE GLOBAL PATENTS

## INDUSTRY-LEADING LONG-TERM STABILITY

Even after long-term use and thermal extremes, the sensor's stability remains best in class:

- Minimizes system calibration needs.
- Improves system performance.
- Helps support system uptime by minimizing the need to service or replace the sensor during its application life.

## TOTAL ERROR BAND (TEB)

Honeywell specifies TEB—the most comprehensive, clear, and meaningful measurement—that provides the sensor's true performance over a compensated range of -20 °C to 85 °C [-4 °F to 185 °F] (see Figure 1):

- Minimizes individually testing and calibrating every sensor, decreasing manufacturing time and process costs.
- Improves system accuracy.
- Provides enhanced sensor interchangeability—there is minimal part-to-part variation in accuracy.

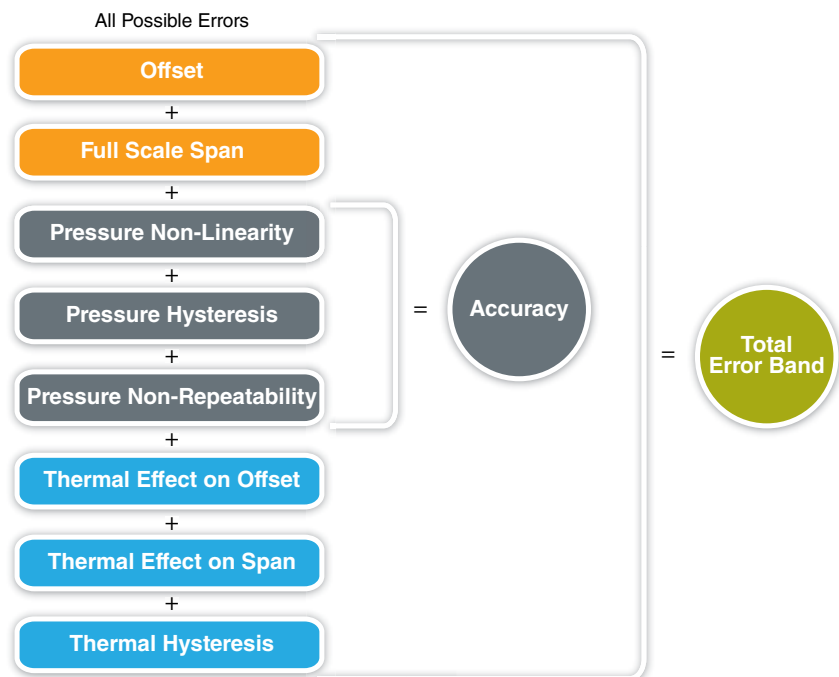


Figure 1. TEB Components for TruStability® Board Mount Pressure Sensors

# Features and Benefits

## INDUSTRY-LEADING ACCURACY

Extremely tight accuracy of  $\pm 0.25$  %FSS BFSL (Full Scale Span Best Fit Straight Line) reduces software needs to correct system inaccuracies, minimizing system design time:

- Avoids additional customer calibration.
- Helps to improve system efficiency.
- Often simplifies software development.

## HIGH BURST PRESSURES

- Promotes system reliability and reduces potential system downtime.
- Can simplify the design process.

## HIGH WORKING PRESSURE RANGES

Allows ultra-low pressure sensors to be used continuously well above the calibrated pressure range.

## INDUSTRY-LEADING FLEXIBILITY

Modular, flexible design with many package styles (with the same industry-leading stability), pressure ports, and options simplify integration into the device manufacturer's application.

## WIDE VARIETY OF PRESSURE RANGES

From  $\pm 1.6$  mbar to  $\pm 10$  bar |  $\pm 160$  Pa to  $\pm 1$  MPa |  $\pm 0.5$  inH<sub>2</sub>O to  $\pm 150$  psi provide support for many unique applications.

## MEETS IPC/JEDEC J-STD-020D.1 MOISTURE SENSITIVITY LEVEL 1 REQUIREMENTS

- Allows the customer to avoid the thermal and mechanical damage during solder reflow attachment and/or repair that lesser rated products would incur.
- Allows unlimited floor life when stored as specified ( $\leq 30$  °C/85 %RH), simplifying storage and reducing scrap.
- Never requires lengthy bakes prior to reflow.
- Stable and usable shortly after reflow process allows for lean manufacturing.

## OPTIONAL INTERNAL DIAGNOSTIC FUNCTIONS

- May reduce the need for redundant sensors in the system.
- Detects most internal failures including burst sensors.

## ENERGY EFFICIENT

Extremely low power consumption (less than 10 mW, typ.):

- Reduces system power requirements.
- Enables extended battery life.
- Optional sleep mode available upon special request.

# Features and Benefits

## **OUTPUT: RATIOMETRIC ANALOG; I<sup>2</sup>C- OR SPI-COMPATIBLE 14-BIT DIGITAL OUTPUT (MIN. 12-BIT SENSOR RESOLUTION)**

Accelerates performance through reduced conversion requirements and the convenience of direct interface to microprocessors.

## **SMALL SIZE**

Miniature 10 mm x 10 mm [0.39 in x 0.39 in] package is very small when compared to many board mount pressure sensors:

- Occupies less area on the PCB.
- Typically allows for easy placement on crowded PCBs or in small devices.

## **REACH AND ROHS COMPLIANT**

## **LIQUID MEDIA OPTION**

- Provides robustness in environments with condensing humidity.
- Compatible with a variety of non-ionic fluids.
- Available for pressure ranges above 40 mbar | 4 kPa | 20 inH<sub>2</sub>O.

## Potential Applications



### MEDICAL

---

- AIRFLOW MONITORS
- ANESTHESIA MACHINES
- BLOOD ANALYSIS MACHINES
- GAS FLOW INSTRUMENTATION
- KIDNEY DIALYSIS MACHINES
- OXYGEN CONCENTRATORS
- PNEUMATIC CONTROLS
- RESPIRATORY MACHINES
- SLEEP APNEA EQUIPMENT
- VENTILATORS
- SPIROMETERS
- NEBULIZERS
- HOSPITAL ROOM AIR PRESSURE



### INDUSTRIAL

---

- BAROMETRY
- FLOW CALIBRATORS
- GAS CHROMATOGRAPHY
- GAS FLOW INSTRUMENTATION
- HVAC
- LIFE SCIENCES
- PNEUMATIC CONTROL
- VAV (VARIABLE AIR VOLUME) CONTROL
- CLOGGED HVAC FILTER DETECTION
- HVAC TRANSMITTERS
- INDOOR AIR QUALITY



# General Specifications

**Table 1. Absolute Maximum Ratings<sup>1</sup>**

| Characteristic                         | Min.                         | Max.                      | Unit    |
|----------------------------------------|------------------------------|---------------------------|---------|
| Supply voltage ( $V_{\text{supply}}$ ) | -0.3                         | 6.0                       | Vdc     |
| Voltage on any pin                     | -0.3                         | $V_{\text{supply}} + 3.0$ | V       |
| Digital interface clock frequency:     |                              |                           |         |
| I <sup>2</sup> C                       | 100                          | 400                       | kHz     |
| SPI                                    | 50                           | 800                       |         |
| ESD susceptibility (human body model)  | 3                            | —                         | kV      |
| Storage temperature                    | -40 [-40]                    | 85 [185]                  | °C [°F] |
| Soldering time and temperature:        |                              |                           |         |
| lead solder temperature (SIP, DIP)     | 4 s max. at 250 °C [482 °F]  |                           |         |
| peak reflow temperature (SMT)          | 15 s max. at 250 °C [482 °F] |                           |         |

<sup>1</sup>Absolute maximum ratings are the extreme limits the device will withstand without damage.

**Table 2. Environmental Specifications**

| Characteristic                                         | Parameter                                                                                                |
|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| Humidity:                                              |                                                                                                          |
| gases only (See “Options N and D” in Figure 4.)        | 0% to 95% RH, non-condensing                                                                             |
| liquid media only (See “Options T and V” in Figure 4.) | 100% condensing or direct liquid media on Port 1                                                         |
| Vibration                                              | MIL-STD-202G, Method 204D, Condition B (15 g, 10 Hz to 2 kHz)                                            |
| Shock                                                  | MIL-STD-202G, Method 213B, Condition C (100 g, 6 ms duration)                                            |
| Life <sup>1</sup>                                      | 1 million pressure cycles minimum                                                                        |
| Solder reflow                                          | J-STD-020-D.1 Moisture Sensitivity Level 1<br>(unlimited shelf life when stored at $\leq 30$ °C/85 % RH) |

<sup>1</sup>Life may vary depending on specific application in which the sensor is utilized.

# General Specifications

Table 3. Wetted Materials<sup>1</sup>

| Component             | Port 1 (Pressure Port)          | Port 2 (Reference Port)    |
|-----------------------|---------------------------------|----------------------------|
| Ports and covers      | high temperature polyamide      | high temperature polyamide |
| Substrate             | alumina ceramic                 | alumina ceramic            |
| Adhesives             | epoxy, silicone                 | epoxy, silicone            |
| Electronic components | ceramic, silicon, glass, solder | silicon, glass, gold       |

<sup>1</sup>Contact Honeywell Customer Service for detailed material information.

## CAUTION

### PRODUCT DAMAGE FOR SENSORS WITH LIQUID MEDIA OPTION (ONLY AVAILABLE 60 MBAR | 6 KPA | 1 PSI AND ABOVE)

- Ensure liquid media is applied to Port 1 only; Port 2 is not compatible with liquids.
- Ensure liquid media contains no particulates. All TruStability® sensors are dead-ended devices. Particulates can accumulate inside the sensor, causing damage or affecting sensor output.
- Recommend that the sensor be positioned with Port 1 facing downwards; any particulates in the system are less likely to enter and settle within the pressure sensor if it is in this position.
- Ensure liquid media does not create a residue when dried; build-up inside the sensor may affect sensor output. Rinsing of a dead-ended sensor is difficult and has limited effectiveness for removing residue.
- Ensure liquid media are compatible with wetted materials. Non-compatible liquid media will degrade sensor performance and may lead to sensor failure.

**Failure to comply with these instructions may result in product damage.**

Table 4. Pressure Types

| Pressure Type | Description                                                                                            |
|---------------|--------------------------------------------------------------------------------------------------------|
| Absolute      | Output is proportional to the difference between applied pressure and a built-in vacuum reference.     |
| Differential  | Output is proportional to the difference between the pressures applied to each port (Port 1 – Port 2). |
| Gage          | Output is proportional to the difference between applied pressure and atmospheric (ambient) pressure.  |

# Analog Operating Specifications

**Table 5. Analog Operating Specifications**

| Characteristic                                                                                                                                                                                                               | Min.                        | Typ.                     | Max.                        | Unit                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------------|-----------------------------|------------------------|
| Supply voltage ( $V_{\text{supply}}$ ): <sup>1, 2, 3</sup><br>pressure ranges $\geq 60$ mbar   6 kPa   1 psi:<br>3.3 Vdc<br>5.0 Vdc<br>pressure ranges $\leq 40$ mbar   4 kPa   20 inH <sub>2</sub> O:<br>3.3 Vdc<br>5.0 Vdc | 3.0<br>4.75<br>3.27<br>4.95 | 3.3<br>5.0<br>3.3<br>5.0 | 3.6<br>5.25<br>3.33<br>5.05 | Vdc                    |
| Supply current:<br>3.3 Vdc<br>5.0 Vdc                                                                                                                                                                                        | —<br>—                      | 2.1<br>2.7               | 2.8<br>3.5                  | mA                     |
| Operating temperature range <sup>4</sup>                                                                                                                                                                                     | -40 [-40]                   | —                        | 85 [185]                    | °C [°F]                |
| Compensated temperature range <sup>5</sup>                                                                                                                                                                                   | -20 [-4]                    | —                        | 85 [185]                    | °C [°F]                |
| Startup time (power up to data ready)                                                                                                                                                                                        | —                           | —                        | 5                           | ms                     |
| Response time                                                                                                                                                                                                                | —                           | 1                        | —                           | ms                     |
| Clipping limit:<br>upper<br>lower                                                                                                                                                                                            | —<br>2.5                    | —<br>—                   | 97.5<br>—                   | %Vsupply               |
| Accuracy <sup>6</sup>                                                                                                                                                                                                        | —                           | —                        | $\pm 0.25$                  | %FSS BFSL <sup>8</sup> |
| Output resolution                                                                                                                                                                                                            | 0.03                        | —                        | —                           | %FSS                   |
| Orientation sensitivity ( $\pm 1$ g): <sup>7, 9</sup><br>pressure ranges $\leq 40$ mbar   4 kPa   20 inH <sub>2</sub> O<br>pressure ranges $\leq 2.5$ mbar   250 Pa   1 inH <sub>2</sub> O                                   | —<br>—                      | $\pm 0.1$<br>$\pm 0.2$   | —<br>—                      | %FSS <sup>8</sup>      |

<sup>1</sup>Sensors are either 3.3 Vdc or 5.0 Vdc based on the catalog listing selected.

<sup>2</sup>Ratiometricity of the sensor (the ability of the device output to scale to the supply voltage) is achieved within the specified operating voltage.

<sup>3</sup>The sensor is not reverse polarity protected. Incorrect application of supply voltage or ground to the wrong pin may cause electrical failure.

<sup>4</sup>Operating temperature range: The temperature range over which the sensor will produce an output proportional to pressure.

<sup>5</sup>Compensated temperature range: The temperature range over which the sensor will produce an output proportional to pressure within the specified performance limits.

<sup>6</sup>Accuracy: The maximum deviation in output from a Best Fit Straight Line (BFSL) fitted to the output measured over the pressure range at 25 °C [77 °F]. Includes all errors due to pressure non-linearity, pressure hysteresis, and non-repeatability.

<sup>7</sup>Orientation sensitivity: The maximum change in offset of the sensor due to a change in position or orientation relative to Earth's gravitational field.

<sup>8</sup>Full Scale Span (FSS): The algebraic difference between the output signal measured at the maximum (Pmax.) and minimum (Pmin.) limits of the pressure range. (See Figure 4 for ranges.)

<sup>9</sup>Insignificant for pressure ranges above 40 mbar | 4 kPa | 20 inH<sub>2</sub>O.

# Digital Operating Specifications

**Table 6. Digital Operating Specifications**

| Characteristic                                                                                                                                                                                                               | Min.                        | Typ.                     | Max.                        | Unit                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------------|-----------------------------|------------------------|
| Supply voltage ( $V_{\text{supply}}$ ): <sup>1, 2, 3</sup><br>pressure ranges $\geq 60$ mbar   6 kPa   1 psi:<br>3.3 Vdc<br>5.0 Vdc<br>pressure ranges $\leq 40$ mbar   4 kPa   20 inH <sub>2</sub> O:<br>3.3 Vdc<br>5.0 Vdc | 3.0<br>4.75<br>3.27<br>4.95 | 3.3<br>5.0<br>3.3<br>5.0 | 3.6<br>5.25<br>3.33<br>5.05 | Vdc                    |
| Supply current:<br>3.3 Vdc<br>5.0 Vdc                                                                                                                                                                                        | —<br>—                      | 3.1<br>3.7               | 3.9<br>4.6                  | mA                     |
| Operating temperature range <sup>4</sup>                                                                                                                                                                                     | -40 [-40]                   | —                        | 85 [185]                    | °C [°F]                |
| Compensated temperature range <sup>5</sup>                                                                                                                                                                                   | -20 [-4]                    | —                        | 85 [185]                    | °C [°F]                |
| Startup time (power up to data ready)                                                                                                                                                                                        | —                           | —                        | 3                           | ms                     |
| Response time                                                                                                                                                                                                                | —                           | 0.46                     | —                           | ms                     |
| SPI/I <sup>2</sup> C voltage level:<br>low<br>high                                                                                                                                                                           | —<br>80                     | —<br>—                   | 20<br>—                     | %Vsupply               |
| Pull up on SDA/MISO, SCL/SCLK, SS                                                                                                                                                                                            | 1                           | —                        | —                           | kOhm                   |
| Accuracy <sup>6</sup>                                                                                                                                                                                                        | —                           | —                        | $\pm 0.25$                  | %FSS BFSL <sup>8</sup> |
| Output resolution                                                                                                                                                                                                            | 12                          | —                        | —                           | bits                   |
| Orientation sensitivity ( $\pm 1$ g): <sup>7, 9</sup><br>pressure ranges $\leq 40$ mbar   4 kPa   20 inH <sub>2</sub> O<br>pressure ranges $\leq 2.5$ mbar   250 Pa   1 inH <sub>2</sub> O                                   | —<br>—                      | $\pm 0.1$<br>$\pm 0.2$   | —<br>—                      | %FSS <sup>8</sup>      |

<sup>1</sup>Sensors are either 3.3 Vdc or 5.0 Vdc based on the catalog listing selected.

<sup>2</sup>Ratiometricity of the sensor (the ability of the device output to scale to the supply voltage) is achieved within the specified operating voltage.

<sup>3</sup>The sensor is not reverse polarity protected. Incorrect application of supply voltage or ground to the wrong pin may cause electrical failure.

<sup>4</sup>Operating temperature range: The temperature range over which the sensor will produce an output proportional to pressure.

<sup>5</sup>Compensated temperature range: The temperature range over which the sensor will produce an output proportional to pressure within the specified performance limits.

<sup>6</sup>Accuracy: The maximum deviation in output from a Best Fit Straight Line (BFSL) fitted to the output measured over the pressure range at 25 °C [77 °F]. Includes all errors due to pressure non-linearity, pressure hysteresis, and non-repeatability.

<sup>7</sup>Orientation sensitivity: The maximum change in offset of the sensor due to a change in position or orientation relative to Earth's gravitational field.

<sup>8</sup>Full Scale Span (FSS): The algebraic difference between the output signal measured at the maximum (Pmax.) and minimum (Pmin.) limits of the pressure range. (See Figure 4 for ranges.)

<sup>9</sup>Insignificant for pressure ranges above 40 mbar | 4 kPa | 20 inH<sub>2</sub>O.

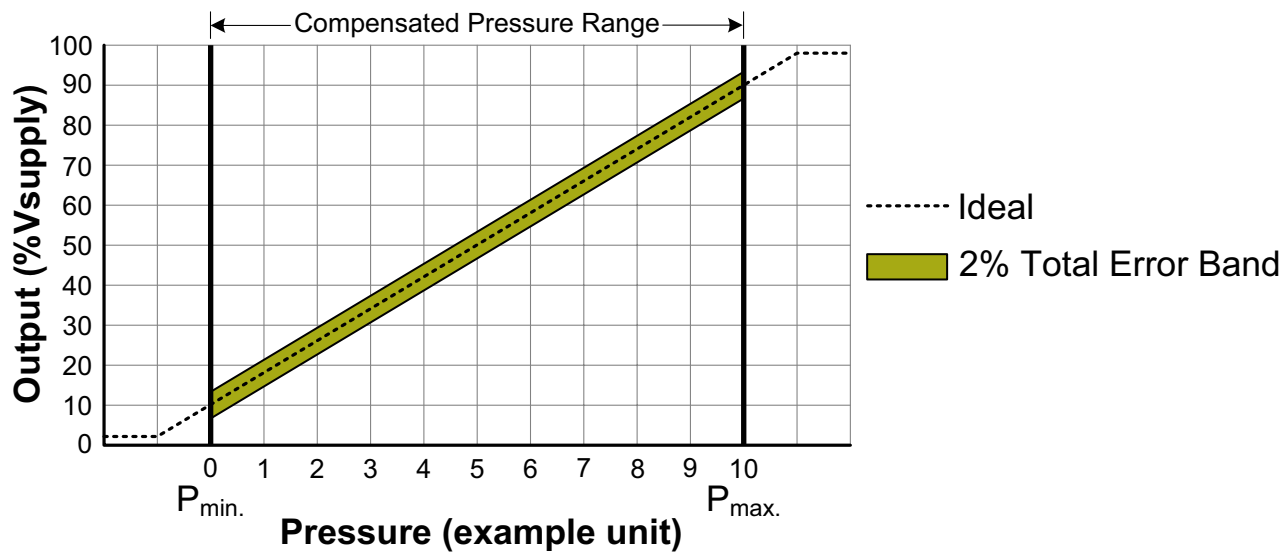
**Table 7. Sensor Output at Significant Percentages (digital versions only)**

| % Output | Digital Counts (decimal) | Digital Counts (hex) |
|----------|--------------------------|----------------------|
| 0        | 0                        | 0x0000               |
| 10       | 1638                     | 0x0666               |
| 50       | 8192                     | 0x2000               |
| 90       | 14746                    | 0x399A               |
| 100      | 16383                    | 0x3FFF               |

# Transfer Function Limits

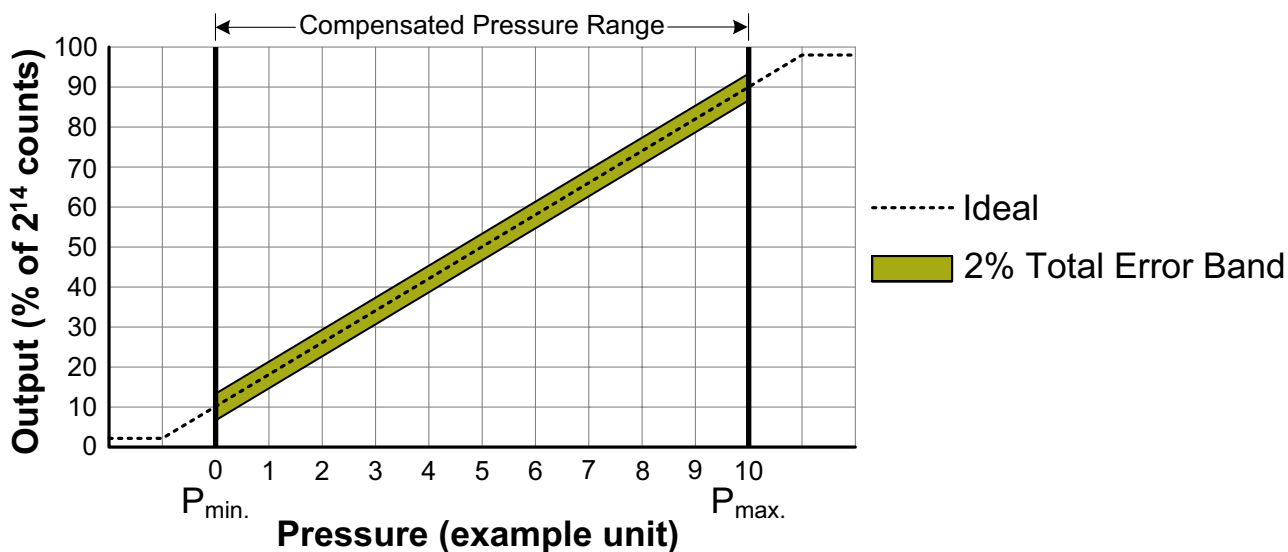
Figure 2. Transfer Function Limits<sup>1</sup>

## Analog Versions



$$\text{Output (V)} = \frac{0.8 \times V_{\text{supply}}}{P_{\text{max.}} - P_{\text{min.}}} \times (\text{Pressure}_{\text{applied}} - P_{\text{min.}}) + 0.10 \times V_{\text{supply}}$$

## Digital Versions

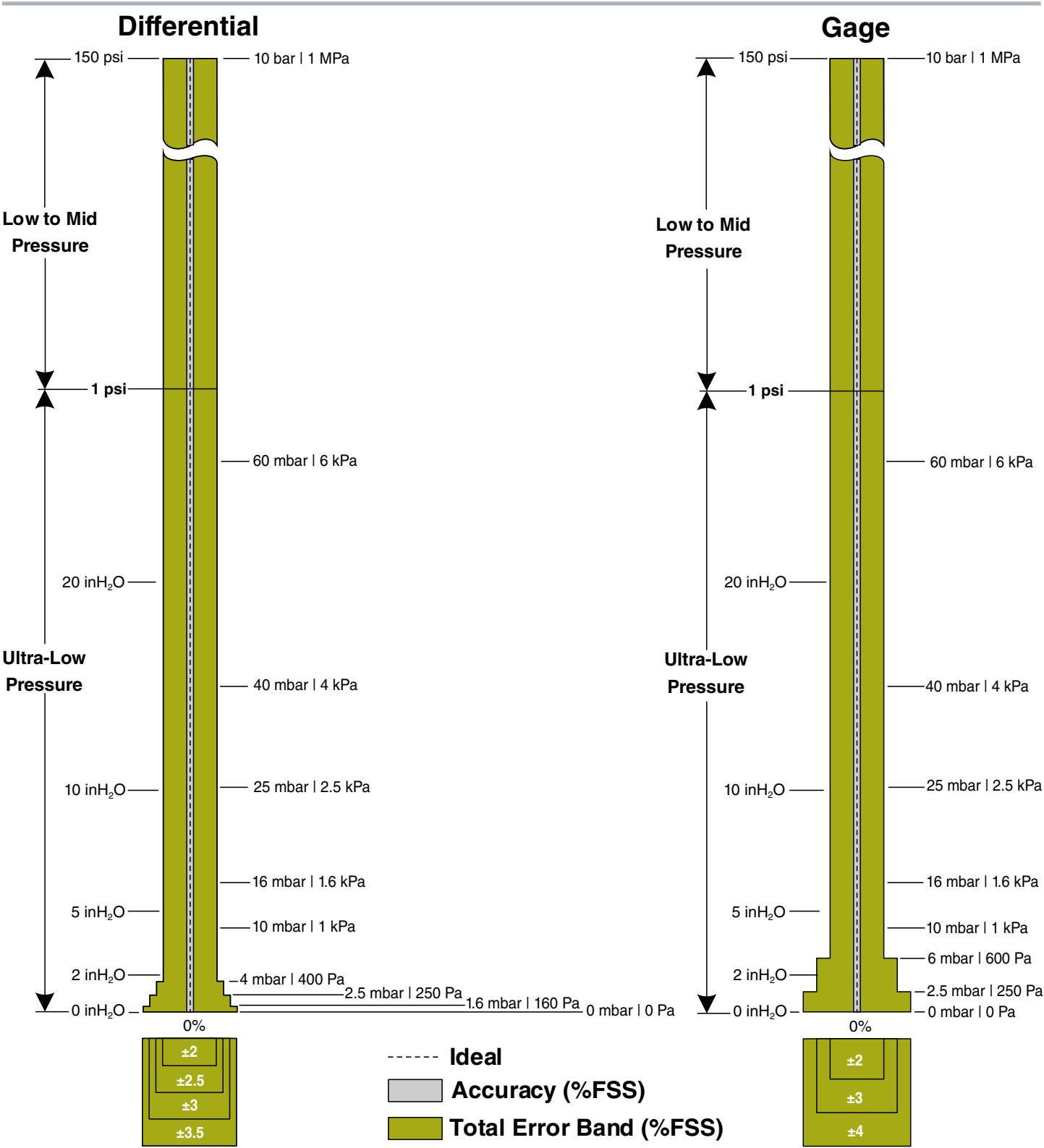


$$\text{Output (\% of } 2^{14} \text{ counts)} = \frac{80\%}{P_{\text{max.}} - P_{\text{min.}}} \times (\text{Pressure}_{\text{applied}} - P_{\text{min.}}) + 10\%$$

<sup>1</sup>Transfer Function "A" is shown. See Figure 4 for other available transfer function options.

# Total Error Band Values

Figure 3. Total Error Band Values for Full Scale Span Pressure Ranges



# Nomenclature and Order Guide

Figure 4. Nomenclature and Order Guide

For example, **SSCDNNN150PGAA3** defines an SSC Series TruStability® Pressure Sensor, DIP package, NN pressure port, no special options, 150 psi gage pressure range, analog output type, 10% to 90% of Vsupply transfer function, 3.3 Vdc supply voltage.

| SSC D N N N 150 P G A A 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  | Supply Voltage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Series</b><br><b>SSC</b> Standard Accuracy, Compensated/Amplified                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  | <b>3</b> 3.3 Vdc<br><b>5</b> 5.0 Vdc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Package</b><br><b>D</b> DIP (Dual Inline Pin)<br><b>M</b> SMT (Surface Mount Technology)<br><b>S</b> SIP (Single Inline Pin)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  | <b>Transfer Function<sup>1</sup></b><br><b>A</b> 10% to 90% of Vsupply (analog), 2 <sup>14</sup> counts (digital)<br><b>B</b> 5% to 95% of Vsupply (analog), 2 <sup>14</sup> counts (digital)<br><b>C</b> 5% to 85% of Vsupply (analog), 2 <sup>14</sup> counts (digital)<br><b>F</b> 4% to 94% of Vsupply (analog), 2 <sup>14</sup> counts (digital)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Pressure Port</b><br><b>DIP</b><br><b>NN</b> No ports<br><b>AN</b> Single axial barbed port<br><b>LN</b> Single axial barbless port<br><b>RN</b> Single radial barbed port<br><b>RR</b> Dual radial barbed ports, same side<br><b>DR</b> Dual radial barbed ports, opposite sides<br><b>JN</b> Single radial barbless port<br><b>JJ</b> Dual radial barbless ports, same side                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |  | <b>Output Type<sup>2</sup></b><br><b>A</b> Analog<br><b>S</b> SPI<br><b>2</b> I <sup>2</sup> C, Address 0x28<br><b>3</b> I <sup>2</sup> C, Address 0x38<br><b>4</b> I <sup>2</sup> C, Address 0x48<br><b>5</b> I <sup>2</sup> C, Address 0x58<br><b>6</b> I <sup>2</sup> C, Address 0x68<br><b>7</b> I <sup>2</sup> C, Address 0x78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>SMT</b><br><b>NN</b> No ports<br><b>AN</b> Single axial barbed port<br><b>LN</b> Single axial barbless port<br><b>RN</b> Single radial barbed port<br><b>RR</b> Dual radial barbed ports, same side<br><b>DR</b> Dual radial barbed ports, opposite sides<br><b>JN</b> Single radial barbless port<br><b>JJ</b> Dual radial barbless ports, same side                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  | <b>Pressure Range<sup>3, 4</sup></b><br><b>Absolute</b><br><b>001BA</b> 0 bar to 1 bar<br><b>1.6BA</b> 0 bar to 1.6 bar<br><b>2.5BA</b> 0 bar to 2.5 bar<br><b>004BA</b> 0 bar to 4 bar<br><b>006BA</b> 0 bar to 6 bar<br><b>010BA</b> 0 bar to 10 bar<br><b>Differential</b><br><b>1.6MD</b> ±1.6 mbar<br><b>2.5MD</b> ±2.5 mbar<br><b>004MD</b> ±4 mbar<br><b>006MD</b> ±6 mbar<br><b>010MD</b> ±10 mbar<br><b>016MD</b> ±16 mbar<br><b>025MD</b> ±25 mbar<br><b>040MD</b> ±40 mbar<br><b>060MD</b> ±60 mbar<br><b>100MD</b> ±100 mbar<br><b>160MD</b> ±160 mbar<br><b>250MD</b> ±250 mbar<br><b>400MD</b> ±400 mbar<br><b>600MD</b> ±600 mbar<br><b>001BD</b> ±1 bar<br><b>1.6BD</b> ±1.6 bar<br><b>2.5BD</b> ±2.5 bar<br><b>004BD</b> ±4 bar<br><b>Gage</b><br><b>2.5MG</b> 0 mbar to 2.5 mbar<br><b>004MG</b> 0 mbar to 4 mbar<br><b>006MG</b> 0 mbar to 6 mbar<br><b>010MG</b> 0 mbar to 10 mbar<br><b>016MG</b> 0 mbar to 16 mbar<br><b>025MG</b> 0 mbar to 25 mbar<br><b>040MG</b> 0 mbar to 40 mbar<br><b>060MG</b> 0 mbar to 60 mbar<br><b>100MG</b> 0 mbar to 100 mbar<br><b>160MG</b> 0 mbar to 160 mbar<br><b>250MG</b> 0 mbar to 250 mbar<br><b>400MG</b> 0 bar to 400 mbar<br><b>600MG</b> 0 bar to 600 mbar<br><b>001BG</b> 0 bar to 1 bar<br><b>1.6BG</b> 0 bar to 1.6 bar<br><b>2.5BG</b> 0 bar to 2.5 bar<br><b>004BG</b> 0 bar to 4 bar<br><b>006BG</b> 0 bar to 6 bar<br><b>010BG</b> 0 bar to 10 bar |
| <b>SIP</b><br><b>NN</b> No ports<br><b>AA</b> Dual axial barbed ports, opposite sides<br><b>AN</b> Single axial barbed port<br><b>LN</b> Single axial barbless port<br><b>FF</b> Fastener mount, dual axial barbed ports, opposite sides<br><b>FN</b> Fastener mount, single axial barbed port<br><b>GN</b> Ribbed fastener mount, single axial barbed port<br><b>NB</b> Fastener mount, dual axial ports, same side<br><b>RN</b> Single radial barbed port<br><b>RR</b> Dual radial barbed ports, same side<br><b>DR</b> Dual radial barbed ports, opposite sides<br><b>JN</b> Single radial barbless port<br><b>JJ</b> Dual radial barbless ports, same side<br><b>HH</b> Fastener mount, dual radial barbed ports, same side<br><b>HN</b> Fastener mount, single radial barbed port<br><b>MN</b> Manifold mount, outer diameter seal<br><b>SN</b> Manifold mount, inner diameter seal |  |  | <b>Absolute</b><br><b>100KA</b> 0 kPa to 100 kPa<br><b>160KA</b> 0 kPa to 160 kPa<br><b>250KA</b> 0 kPa to 250 kPa<br><b>400KA</b> 0 kPa to 400 kPa<br><b>600KA</b> 0 kPa to 600 kPa<br><b>001GA</b> 0 kPa to 1 MPa<br><b>Differential</b><br><b>160LD</b> ±160 Pa<br><b>250LD</b> ±250 Pa<br><b>400LD</b> ±400 Pa<br><b>600LD</b> ±600 Pa<br><b>001KD</b> ±1 kPa<br><b>1.6KD</b> ±1.6 kPa<br><b>2.5KD</b> ±2.5 kPa<br><b>004KD</b> ±4 kPa<br><b>010KD</b> ±10 kPa<br><b>016KD</b> ±16 kPa<br><b>025KD</b> ±25 kPa<br><b>040KD</b> ±40 kPa<br><b>060KD</b> ±60 kPa<br><b>0100KD</b> ±100 kPa<br><b>160KD</b> ±160 kPa<br><b>250KD</b> ±250 kPa<br><b>400KD</b> ±400 kPa<br><b>Gage</b><br><b>250LG</b> 0 Pa to 250 Pa<br><b>400LG</b> 0 Pa to 400 Pa<br><b>600LG</b> 0 Pa to 600 Pa<br><b>001KG</b> 0 kPa to 1 kPa<br><b>1.6KG</b> 0 kPa to 1.6 kPa<br><b>2.5KG</b> 0 kPa to 2.5 kPa<br><b>004KG</b> 0 kPa to 4 kPa<br><b>010KG</b> 0 kPa to 10 kPa<br><b>016KG</b> 0 kPa to 16 kPa<br><b>025KG</b> 0 kPa to 25 kPa<br><b>040KG</b> 0 kPa to 40 kPa<br><b>060KG</b> 0 kPa to 60 kPa<br><b>100KG</b> 0 kPa to 100 kPa<br><b>160KG</b> 0 kPa to 160 kPa<br><b>250KG</b> 0 kPa to 250 kPa<br><b>400KG</b> 0 kPa to 400 kPa<br><b>600KG</b> 0 kPa to 600 kPa<br><b>001GG</b> 0 kPa to 1 MPa                                                                                                                                    |
| <b>Options<sup>5, 6</sup></b><br><b>N</b> Dry gases only, no diagnostics<br><b>D</b> Dry gases only, diagnostics on<br><b>T</b> Liquid media on Port 1, no diagnostics<br><b>V</b> Liquid media on Port 1, diagnostics on                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  | <b>Pressure Range<sup>3, 4</sup></b><br><b>Absolute</b><br><b>015PA</b> 0 psi to 15 psi<br><b>030PA</b> 0 psi to 30 psi<br><b>060PA</b> 0 psi to 60 psi<br><b>100PA</b> 0 psi to 100 psi<br><b>150PA</b> 0 psi to 150 psi<br><b>Differential</b><br><b>0.5ND</b> ±0.5 inH <sub>2</sub> O<br><b>001ND</b> ±1 inH <sub>2</sub> O<br><b>002ND</b> ±2 inH <sub>2</sub> O<br><b>004ND</b> ±4 inH <sub>2</sub> O<br><b>005ND</b> ±5 inH <sub>2</sub> O<br><b>010ND</b> ±10 inH <sub>2</sub> O<br><b>020ND</b> ±20 inH <sub>2</sub> O<br><b>030ND</b> ±30 inH <sub>2</sub> O<br><b>001PD</b> ±1 psi<br><b>005PD</b> ±5 psi<br><b>015PD</b> ±15 psi<br><b>030PD</b> ±30 psi<br><b>060PD</b> ±60 psi<br><b>Gage</b><br><b>001NG</b> 0 inH <sub>2</sub> O to 1 inH <sub>2</sub> O<br><b>002NG</b> 0 inH <sub>2</sub> O to 2 inH <sub>2</sub> O<br><b>004NG</b> 0 inH <sub>2</sub> O to 4 inH <sub>2</sub> O<br><b>005NG</b> 0 inH <sub>2</sub> O to 5 inH <sub>2</sub> O<br><b>010NG</b> 0 inH <sub>2</sub> O to 10 inH <sub>2</sub> O<br><b>020NG</b> 0 inH <sub>2</sub> O to 20 inH <sub>2</sub> O<br><b>030NG</b> 0 inH <sub>2</sub> O to 30 inH <sub>2</sub> O<br><b>001PG</b> 0 psi to 1 psi<br><b>005PG</b> 0 psi to 5 psi<br><b>015PG</b> 0 psi to 15 psi<br><b>030PG</b> 0 psi to 30 psi<br><b>060PG</b> 0 psi to 60 psi<br><b>100PG</b> 0 psi to 100 psi<br><b>150PG</b> 0 psi to 150 psi                                   |

<sup>1</sup>The transfer function limits define the output of the sensor at a given pressure input. By specifying Pmin. and Pmax., the output at Pmin. and Pmax., the complete transfer function of the sensor is defined. See the graphical representations of the transfer function in Figure 2. For other available transfer functions contact Honeywell Customer Service.

<sup>2</sup>SPI output function is not available in SIP package.

<sup>3</sup>Custom pressure ranges are available. Contact Honeywell Customer Service for more information.

<sup>4</sup>See the explanation of sensor pressure types in Table 4.

<sup>5</sup>See the CAUTION in this document.

<sup>6</sup>Options T and V are only available on pressure ranges ±60 mbar to ±10 bar | ±6 kPa to ±1 MPa | ±1 psi to ±150 psi.

# Pressure Range Specifications

## ±1.6 mbar to ±10 bar

Table 8. Pressure Range Specifications for ±1.6 mbar to ±10 bar

| Pressure Range<br>(see Figure 4) | Pressure Range |       | Unit | Working Pressure <sup>1</sup> | Over Pressure <sup>2</sup> | Burst Pressure <sup>3</sup> | Common Mode Pressure <sup>4</sup> | Total Error Band <sup>5</sup><br>(%FSS) | Total Error Band after Auto-Zero <sup>6</sup><br>(%FSS) | Long-term Stability<br>1000 hr, 25 °C<br>(%FSS) |
|----------------------------------|----------------|-------|------|-------------------------------|----------------------------|-----------------------------|-----------------------------------|-----------------------------------------|---------------------------------------------------------|-------------------------------------------------|
|                                  | Pmin.          | Pmax. |      |                               |                            |                             |                                   |                                         |                                                         |                                                 |
| Absolute                         |                |       |      |                               |                            |                             |                                   |                                         |                                                         |                                                 |
| 001BA                            | 0              | 1     | bar  | -                             | 2                          | 4                           | -                                 | 2%                                      | -                                                       | ±0.25%                                          |
| 1.6BA                            | 0              | 1.6   | bar  | -                             | 4                          | 8                           | -                                 | 2%                                      | -                                                       | ±0.25%                                          |
| 2.5BA                            | 0              | 2.5   | bar  | -                             | 6                          | 8                           | -                                 | 2%                                      | -                                                       | ±0.25%                                          |
| 004BA                            | 0              | 4     | bar  | -                             | 8                          | 16                          | -                                 | 2%                                      | -                                                       | ±0.25%                                          |
| 006BA                            | 0              | 6     | bar  | -                             | 17                         | 17                          | -                                 | 2%                                      | -                                                       | ±0.25%                                          |
| 010BA                            | 0              | 10    | bar  | -                             | 17                         | 17                          | -                                 | 2%                                      | -                                                       | ±0.25%                                          |
| Differential                     |                |       |      |                               |                            |                             |                                   |                                         |                                                         |                                                 |
| 1.6MD                            | -1.6           | 1.6   | mbar | 335                           | 675                        | 1000                        | 3450                              | ±3.5%                                   | ±2.5%                                                   | ±0.5%                                           |
| 2.5MD                            | -2.5           | 2.5   | mbar | 335                           | 675                        | 1000                        | 3450                              | ±3%                                     | ±1.5%                                                   | ±0.35%                                          |
| 004MD                            | -4             | 4     | mbar | 335                           | 675                        | 1000                        | 3450                              | ±2.5%                                   | ±1%                                                     | ±0.35%                                          |
| 006MD                            | -6             | 6     | mbar | 335                           | 675                        | 1000                        | 3450                              | ±2%                                     | ±1%                                                     | ±0.35%                                          |
| 010MD                            | -10            | 10    | mbar | 375                           | 750                        | 1250                        | 5450                              | ±2%                                     | ±0.75%                                                  | ±0.25%                                          |
| 016MD                            | -16            | 16    | mbar | 375                           | 750                        | 1250                        | 5450                              | ±2%                                     | ±0.75%                                                  | ±0.25%                                          |
| 025MD                            | -25            | 25    | mbar | 435                           | 850                        | 1350                        | 10450                             | ±2%                                     | ±0.75%                                                  | ±0.25%                                          |
| 040MD                            | -40            | 40    | mbar | 435                           | 850                        | 1350                        | 10450                             | ±2%                                     | ±0.75%                                                  | ±0.25%                                          |
| 060MD                            | -60            | 60    | mbar | -                             | 850                        | 1000                        | 10000                             | ±2%                                     | -                                                       | ±0.25%                                          |
| 100MD                            | -100           | 100   | mbar | -                             | 1400                       | 2500                        | 10000                             | ±2%                                     | -                                                       | ±0.25%                                          |
| 160MD                            | -160           | 160   | mbar | -                             | 1400                       | 2500                        | 10000                             | ±2%                                     | -                                                       | ±0.25%                                          |
| 250MD                            | -250           | 250   | mbar | -                             | 1400                       | 2500                        | 10000                             | ±2%                                     | -                                                       | ±0.25%                                          |
| 400MD                            | -400           | 400   | mbar | -                             | 2000                       | 4000                        | 10000                             | ±2%                                     | -                                                       | ±0.25%                                          |
| 600MD                            | -600           | 600   | mbar | -                             | 2000                       | 4000                        | 10000                             | ±2%                                     | -                                                       | ±0.25%                                          |
| 001BD                            | -1             | 1     | bar  | -                             | 4                          | 8                           | 10                                | ±2%                                     | -                                                       | ±0.25%                                          |
| 1.6BD                            | -1.6           | 1.6   | bar  | -                             | 8                          | 16                          | 10                                | ±2%                                     | -                                                       | ±0.25%                                          |
| 2.5BD                            | -2.5           | 2.5   | bar  | -                             | 8                          | 16                          | 10                                | ±2%                                     | -                                                       | ±0.25%                                          |
| 004BD                            | -4.0           | 4.0   | bar  | -                             | 16                         | 17                          | 10                                | ±2%                                     | -                                                       | ±0.25%                                          |
| Gage                             |                |       |      |                               |                            |                             |                                   |                                         |                                                         |                                                 |
| 2.5MG                            | 0              | 2.5   | mbar | 335                           | 675                        | 1000                        | 3450                              | ±4%                                     | ±3%                                                     | ±0.5%                                           |
| 004MG                            | 0              | 4     | mbar | 335                           | 675                        | 1000                        | 3450                              | ±3%                                     | ±1.5%                                                   | ±0.5%                                           |
| 006MG                            | 0              | 6     | mbar | 335                           | 675                        | 1000                        | 3450                              | ±3%                                     | ±1.5%                                                   | ±0.35%                                          |
| 010MG                            | 0              | 10    | mbar | 335                           | 675                        | 1000                        | 3450                              | ±2%                                     | ±1%                                                     | ±0.35%                                          |
| 016MG                            | 0              | 16    | mbar | 335                           | 675                        | 1000                        | 3450                              | ±2%                                     | ±1%                                                     | ±0.25%                                          |
| 025MG                            | 0              | 25    | mbar | 375                           | 750                        | 1250                        | 5450                              | ±2%                                     | ±0.75%                                                  | ±0.25%                                          |
| 040MG                            | 0              | 40    | mbar | 375                           | 750                        | 1250                        | 5450                              | ±2%                                     | ±0.75%                                                  | ±0.25%                                          |
| 060MG                            | 0              | 60    | mbar | -                             | 850                        | 1000                        | 5450                              | ±2%                                     | ±0.75%                                                  | ±0.25%                                          |
| 100MG                            | 0              | 100   | mbar | -                             | 850                        | 1000                        | 10000                             | ±2%                                     | -                                                       | ±0.25%                                          |
| 160MG                            | 0              | 160   | mbar | -                             | 850                        | 1000                        | 10000                             | ±2%                                     | -                                                       | ±0.25%                                          |
| 250MG                            | 0              | 250   | mbar | -                             | 1400                       | 2500                        | 10000                             | ±2%                                     | -                                                       | ±0.25%                                          |
| 400MG                            | 0              | 400   | mbar | -                             | 2000                       | 4000                        | 10000                             | ±2%                                     | -                                                       | ±0.25%                                          |
| 600MG                            | 0              | 600   | mbar | -                             | 2000                       | 4000                        | 10000                             | ±2%                                     | -                                                       | ±0.25%                                          |
| 001BG                            | 0              | 1     | bar  | -                             | 2                          | 4                           | 10                                | ±2%                                     | -                                                       | ±0.25%                                          |
| 1.6BG                            | 0              | 1.6   | bar  | -                             | 4                          | 8                           | 10                                | ±2%                                     | -                                                       | ±0.25%                                          |
| 2.5BG                            | 0              | 2.5   | bar  | -                             | 8                          | 16                          | 10                                | ±2%                                     | -                                                       | ±0.25%                                          |
| 004BG                            | 0              | 4     | bar  | -                             | 8                          | 16                          | 16                                | ±2%                                     | -                                                       | ±0.25%                                          |
| 006BG                            | 0              | 6     | bar  | -                             | 17                         | 17                          | 17                                | ±2%                                     | -                                                       | ±0.25%                                          |
| 010BG                            | 0              | 10    | bar  | -                             | 17                         | 17                          | 17                                | ±2%                                     | -                                                       | ±0.25%                                          |

<sup>1</sup>Working pressure: The maximum pressure that may be applied to any port of the sensor in continuous use. This pressure may be outside the operating pressure range limits (Pmin. to Pmax.) in which case the sensor may not provide a valid output until pressure is returned to within the operating pressure range. Tested to 1 million cycles, minimum.

<sup>2</sup>Overpressure: The maximum pressure which may safely be applied to the product for it to remain in specification once pressure is returned to the operating pressure range. Exposure to higher pressures may cause permanent damage to the product. Unless otherwise specified this applies to all available pressure ports at any temperature with the operating temperature range.

<sup>3</sup>Burst pressure: The maximum pressure that may be applied to any port of the product without causing escape of pressure media. Product should not be expected to function after exposure to any pressure beyond the burst pressure.

<sup>4</sup>Common mode pressure: The maximum pressure that can be applied simultaneously to both ports of a differential pressure sensor without causing changes in specified performance.

<sup>5</sup>Total Error Band: The maximum deviation from the ideal transfer function over the entire compensated temperature and pressure range. Includes all errors due to offset, full scale span, pressure non-linearity, pressure hysteresis, repeatability, thermal effect on offset, thermal effect on span, and thermal hysteresis (see Figure 1).

<sup>6</sup>Total Error Band after Auto-Zero: The maximum deviation from the ideal transfer function over the entire compensated pressure range at a constant temperature and supply voltage for a minimum of 24 hours after an auto-zero operation. Includes all errors due to full scale span, pressure non-linearity, pressure hysteresis, and thermal effect on span.

# Pressure Range Specifications

## ±160 Pa to ±1 MPa

Table 9. Pressure Range Specifications for ±160 Pa to ±1 MPa

| Pressure Range<br>(see Figure 4) | Pressure Range |       | Unit | Working Pressure <sup>1</sup> | Over Pressure <sup>2</sup> | Burst Pressure <sup>3</sup> | Common Mode Pressure <sup>4</sup> | Total Error Band <sup>5</sup><br>(%FSS) | Total Error Band after Auto-Zero <sup>6</sup><br>(%FSS) | Long-term Stability<br>1000 hr, 25 °C<br>(%FSS) |
|----------------------------------|----------------|-------|------|-------------------------------|----------------------------|-----------------------------|-----------------------------------|-----------------------------------------|---------------------------------------------------------|-------------------------------------------------|
|                                  | Pmin.          | Pmax. |      |                               |                            |                             |                                   |                                         |                                                         |                                                 |
| Absolute                         |                |       |      |                               |                            |                             |                                   |                                         |                                                         |                                                 |
| 100KA                            | 0              | 100   | kPa  | -                             | 200                        | 400                         | -                                 | ±2%                                     | -                                                       | ±0.25%                                          |
| 160KA                            | 0              | 160   | kPa  | -                             | 400                        | 800                         | -                                 | ±2%                                     | -                                                       | ±0.25%                                          |
| 250KA                            | 0              | 250   | kPa  | -                             | 600                        | 800                         | -                                 | ±2%                                     | -                                                       | ±0.25%                                          |
| 400KA                            | 0              | 400   | kPa  | -                             | 800                        | 1600                        | -                                 | ±2%                                     | -                                                       | ±0.25%                                          |
| 600KA                            | 0              | 600   | kPa  | -                             | 1700                       | 1700                        | -                                 | ±2%                                     | -                                                       | ±0.25%                                          |
| 001GA                            | 0              | 1     | MPa  | -                             | 1700                       | 1700                        | -                                 | ±2%                                     | -                                                       | ±0.25%                                          |
| Differential                     |                |       |      |                               |                            |                             |                                   |                                         |                                                         |                                                 |
| 160LD                            | -160           | 160   | Pa   | 33500                         | 67500                      | 100000                      | 345000                            | ±3.5%                                   | ±2.5%                                                   | ±0.5%                                           |
| 250LD                            | -250           | 250   | Pa   | 33500                         | 67500                      | 100000                      | 345000                            | ±3%                                     | ±1.5%                                                   | ±0.35%                                          |
| 400LD                            | -400           | 400   | Pa   | 33500                         | 67500                      | 100000                      | 345000                            | ±2.5%                                   | ±1%                                                     | ±0.35%                                          |
| 600LD                            | -600           | 600   | Pa   | 33500                         | 67500                      | 100000                      | 345000                            | ±2%                                     | ±1%                                                     | ±0.35%                                          |
| 001KD                            | -1             | 1     | kPa  | 37.5                          | 75                         | 125                         | 545                               | ±2%                                     | ±0.75%                                                  | ±0.25%                                          |
| 1.6KD                            | -1.6           | 1.6   | kPa  | 37.5                          | 75                         | 125                         | 545                               | ±2%                                     | ±0.75%                                                  | ±0.25%                                          |
| 2.5KD                            | -2.5           | 2.5   | kPa  | 43.5                          | 85                         | 135                         | 1045                              | ±2%                                     | ±0.75%                                                  | ±0.25%                                          |
| 004KD                            | -4             | 4     | kPa  | 43.5                          | 85                         | 135                         | 1045                              | ±2%                                     | ±0.75%                                                  | ±0.25%                                          |
| 006KD                            | -6             | 6     | kPa  | -                             | 85                         | 100                         | 1000                              | ±2%                                     | -                                                       | ±0.25%                                          |
| 010KD                            | -10            | 10    | kPa  | -                             | 140                        | 250                         | 1000                              | ±2%                                     | -                                                       | ±0.25%                                          |
| 016KD                            | -16            | 16    | kPa  | -                             | 140                        | 250                         | 1000                              | ±2%                                     | -                                                       | ±0.25%                                          |
| 025KD                            | -25            | 25    | kPa  | -                             | 140                        | 250                         | 1000                              | ±2%                                     | -                                                       | ±0.25%                                          |
| 040KD                            | -40            | 40    | kPa  | -                             | 200                        | 400                         | 1000                              | ±2%                                     | -                                                       | ±0.25%                                          |
| 060KD                            | -60            | 60    | kPa  | -                             | 200                        | 400                         | 1000                              | ±2%                                     | -                                                       | ±0.25%                                          |
| 100KD                            | -100           | 100   | kPa  | -                             | 400                        | 800                         | 1000                              | ±2%                                     | -                                                       | ±0.25%                                          |
| 160KD                            | -160           | 160   | kPa  | -                             | 800                        | 1600                        | 1000                              | ±2%                                     | -                                                       | ±0.25%                                          |
| 250KD                            | -250           | 250   | kPa  | -                             | 800                        | 1600                        | 1000                              | ±2%                                     | -                                                       | ±0.25%                                          |
| 400KD                            | -400           | 400   | kPa  | -                             | 1600                       | 1700                        | 1000                              | ±2%                                     | -                                                       | ±0.25%                                          |
| Gage                             |                |       |      |                               |                            |                             |                                   |                                         |                                                         |                                                 |
| 250LG                            | 0              | 250   | Pa   | 33500                         | 67500                      | 100000                      | 345000                            | ±4%                                     | ±3%                                                     | ±0.5%                                           |
| 400LG                            | 0              | 400   | Pa   | 33500                         | 67500                      | 100000                      | 345000                            | ±3%                                     | ±1.5%                                                   | ±0.5%                                           |
| 600LG                            | 0              | 600   | Pa   | 33500                         | 67500                      | 100000                      | 345000                            | ±3%                                     | ±1.5%                                                   | ±0.35%                                          |
| 001KG                            | 0              | 1     | kPa  | 33.5                          | 67.5                       | 100                         | 345                               | ±2%                                     | ±1%                                                     | ±0.35%                                          |
| 1.6KG                            | 0              | 1.6   | kPa  | 33.5                          | 67.5                       | 100                         | 345                               | ±2%                                     | ±1%                                                     | ±0.25%                                          |
| 2.5KG                            | 0              | 2.5   | kPa  | 37.5                          | 75                         | 125                         | 545                               | ±2%                                     | ±0.75%                                                  | ±0.25%                                          |
| 004KG                            | 0              | 4     | kPa  | 37.5                          | 75                         | 125                         | 545                               | ±2%                                     | ±0.75%                                                  | ±0.25%                                          |
| 006KG                            | 0              | 6     | kPa  | -                             | 85                         | 100                         | 545                               | ±2%                                     | ±0.75%                                                  | ±0.25%                                          |
| 010KG                            | 0              | 10    | kPa  | -                             | 85                         | 100                         | 1000                              | ±2%                                     | -                                                       | ±0.25%                                          |
| 016KG                            | 0              | 16    | kPa  | -                             | 85                         | 100                         | 1000                              | ±2%                                     | -                                                       | ±0.25%                                          |
| 025KG                            | 0              | 25    | kPa  | -                             | 140                        | 250                         | 1000                              | ±2%                                     | -                                                       | ±0.25%                                          |
| 040KG                            | 0              | 40    | kPa  | -                             | 200                        | 400                         | 1000                              | ±2%                                     | -                                                       | ±0.25%                                          |
| 060KG                            | 0              | 60    | kPa  | -                             | 200                        | 400                         | 1000                              | ±2%                                     | -                                                       | ±0.25%                                          |
| 100KG                            | 0              | 100   | kPa  | -                             | 200                        | 400                         | 1000                              | ±2%                                     | -                                                       | ±0.25%                                          |
| 160KG                            | 0              | 160   | kPa  | -                             | 400                        | 800                         | 1000                              | ±2%                                     | -                                                       | ±0.25%                                          |
| 250KG                            | 0              | 250   | kPa  | -                             | 800                        | 1600                        | 1000                              | ±2%                                     | -                                                       | ±0.25%                                          |
| 400KG                            | 0              | 400   | kPa  | -                             | 800                        | 1600                        | 1600                              | ±2%                                     | -                                                       | ±0.25%                                          |
| 600KG                            | 0              | 600   | kPa  | -                             | 1700                       | 1700                        | 1700                              | ±2%                                     | -                                                       | ±0.25%                                          |
| 001GG                            | 0              | 1     | MPa  | -                             | 1.7                        | 1.7                         | 1.7                               | ±2%                                     | -                                                       | ±0.25%                                          |

<sup>1</sup>Working pressure: The maximum pressure that may be applied to any port of the sensor in continuous use. This pressure may be outside the operating pressure range limits (Pmin. to Pmax.) in which case the sensor may not provide a valid output until pressure is returned to within the operating pressure range. Tested to 1 million cycles, minimum.

<sup>2</sup>Overpressure: The maximum pressure which may safely be applied to the product for it to remain in specification once pressure is returned to the operating pressure range. Exposure to higher pressures may cause permanent damage to the product. Unless otherwise specified this applies to all available pressure ports at any temperature with the operating temperature range.

<sup>3</sup>Burst pressure: The maximum pressure that may be applied to any port of the product without causing escape of pressure media. Product should not be expected to function after exposure to any pressure beyond the burst pressure.

<sup>4</sup>Common mode pressure: The maximum pressure that can be applied simultaneously to both ports of a differential pressure sensor without causing changes in specified performance.

<sup>5</sup>Total Error Band: The maximum deviation from the ideal transfer function over the entire compensated temperature and pressure range. Includes all errors due to offset, full scale span, pressure non-linearity, pressure hysteresis, repeatability, thermal effect on offset, thermal effect on span, and thermal hysteresis (see Figure 1).

<sup>6</sup>Total Error Band after Auto-Zero: The maximum deviation from the ideal transfer function over the entire compensated pressure range at a constant temperature and supply voltage for a minimum of 24 hours after an auto-zero operation. Includes all errors due to full scale span, pressure non-linearity, pressure hysteresis, and thermal effect on span.

# Specifications

## ±0.5 inH<sub>2</sub>O to ±150 psi

Table 10. Pressure Range Specifications for 0.5 inH<sub>2</sub>O to 150 psi

| Pressure Range<br>(see Figure 4) | Pressure Range |       | Unit               | Working Pressure <sup>1</sup> | Over Pressure <sup>2</sup> | Burst Pressure <sup>3</sup> | Common Mode Pressure <sup>4</sup> | Total Error Band <sup>5</sup><br>(%FSS) | Total Error Band after Auto-Zero <sup>6</sup><br>(%FSS) | Long-term Stability<br>1000 hr, 25 °C<br>(%FSS) |
|----------------------------------|----------------|-------|--------------------|-------------------------------|----------------------------|-----------------------------|-----------------------------------|-----------------------------------------|---------------------------------------------------------|-------------------------------------------------|
|                                  | Pmin.          | Pmax. |                    |                               |                            |                             |                                   |                                         |                                                         |                                                 |
| Absolute                         |                |       |                    |                               |                            |                             |                                   |                                         |                                                         |                                                 |
| 015PA                            | 0              | 15    | psi                | -                             | 30                         | 60                          | -                                 | ±2%                                     | -                                                       | ±0.25%                                          |
| 030PA                            | 0              | 30    | psi                | -                             | 60                         | 120                         | -                                 | ±2%                                     | -                                                       | ±0.25%                                          |
| 060PA                            | 0              | 60    | psi                | -                             | 120                        | 240                         | -                                 | ±2%                                     | -                                                       | ±0.25%                                          |
| 100PA                            | 0              | 100   | psi                | -                             | 250                        | 250                         | -                                 | ±2%                                     | -                                                       | ±0.25%                                          |
| 150PA                            | 0              | 150   | psi                | -                             | 250                        | 250                         | -                                 | ±2%                                     | -                                                       | ±0.25%                                          |
| Differential                     |                |       |                    |                               |                            |                             |                                   |                                         |                                                         |                                                 |
| 0.5ND                            | -0.5           | 0.5   | inH <sub>2</sub> O | 135                           | 270                        | 415                         | 1400                              | ±4%                                     | ±3%                                                     | ±0.5%                                           |
| 001ND                            | -1             | 1     | inH <sub>2</sub> O | 135                           | 270                        | 415                         | 1400                              | ±3%                                     | ±1.5%                                                   | ±0.35%                                          |
| 002ND                            | -2             | 2     | inH <sub>2</sub> O | 135                           | 270                        | 415                         | 1400                              | ±2%                                     | ±1%                                                     | ±0.35%                                          |
| 004ND                            | -4             | 4     | inH <sub>2</sub> O | 150                           | 300                        | 500                         | 2200                              | ±2%                                     | ±0.75%                                                  | ±0.25%                                          |
| 005ND                            | -5             | 5     | inH <sub>2</sub> O | 150                           | 300                        | 500                         | 2200                              | ±2%                                     | ±0.75%                                                  | ±0.25%                                          |
| 010ND                            | -10            | 10    | inH <sub>2</sub> O | 175                           | 350                        | 550                         | 4200                              | ±2%                                     | ±0.75%                                                  | ±0.25%                                          |
| 020ND                            | -20            | 20    | inH <sub>2</sub> O | 175                           | 350                        | 550                         | 4200                              | ±2%                                     | ±0.75%                                                  | ±0.25%                                          |
| 030ND                            | -30            | 30    | inH <sub>2</sub> O | 175                           | 350                        | 550                         | 4200                              | ±2%                                     | ±0.75%                                                  | ±0.25%                                          |
| 001PD                            | -1             | 1     | psi                | -                             | 10                         | 15                          | 150                               | ±2%                                     | -                                                       | ±0.25%                                          |
| 005PD                            | -5             | 5     | psi                | -                             | 30                         | 40                          | 150                               | ±2%                                     | -                                                       | ±0.25%                                          |
| 015PD                            | -15            | 15    | psi                | -                             | 60                         | 120                         | 150                               | ±2%                                     | -                                                       | ±0.25%                                          |
| 030PD                            | -30            | 30    | psi                | -                             | 120                        | 240                         | 150                               | ±2%                                     | -                                                       | ±0.25%                                          |
| 060PD                            | -60            | 60    | psi                | -                             | 250                        | 250                         | 250                               | ±2%                                     | -                                                       | ±0.25%                                          |
| Gage                             |                |       |                    |                               |                            |                             |                                   |                                         |                                                         |                                                 |
| 001NG                            | 0              | 1     | inH <sub>2</sub> O | 135                           | 270                        | 415                         | 1400                              | ±4%                                     | ±3%                                                     | ±0.5%                                           |
| 002NG                            | 0              | 2     | inH <sub>2</sub> O | 135                           | 270                        | 415                         | 1400                              | ±3%                                     | ±1.5%                                                   | ±0.35%                                          |
| 004NG                            | 0              | 4     | inH <sub>2</sub> O | 135                           | 270                        | 415                         | 1400                              | ±2%                                     | ±1%                                                     | ±0.35%                                          |
| 005NG                            | 0              | 5     | inH <sub>2</sub> O | 135                           | 270                        | 415                         | 1400                              | ±2%                                     | ±1%                                                     | ±0.25%                                          |
| 010NG                            | 0              | 10    | inH <sub>2</sub> O | 150                           | 300                        | 500                         | 2200                              | ±2%                                     | ±0.75%                                                  | ±0.25%                                          |
| 020NG                            | 0              | 20    | inH <sub>2</sub> O | 175                           | 350                        | 550                         | 4200                              | ±2%                                     | ±0.75%                                                  | ±0.25%                                          |
| 030NG                            | 0              | 30    | inH <sub>2</sub> O | 175                           | 350                        | 550                         | 4200                              | ±2%                                     | ±0.75%                                                  | ±0.25%                                          |
| 001PG                            | 0              | 1     | psi                | -                             | 10                         | 15                          | 150                               | ±2%                                     | -                                                       | ±0.25%                                          |
| 005PG                            | 0              | 5     | psi                | -                             | 30                         | 40                          | 150                               | ±2%                                     | -                                                       | ±0.25%                                          |
| 015PG                            | 0              | 15    | psi                | -                             | 30                         | 60                          | 150                               | ±2%                                     | -                                                       | ±0.25%                                          |
| 030PG                            | 0              | 30    | psi                | -                             | 60                         | 120                         | 150                               | ±2%                                     | -                                                       | ±0.25%                                          |
| 060PG                            | 0              | 60    | psi                | -                             | 120                        | 240                         | 250                               | ±2%                                     | -                                                       | ±0.25%                                          |
| 100PG                            | 0              | 100   | psi                | -                             | 250                        | 250                         | 250                               | ±2%                                     | -                                                       | ±0.25%                                          |
| 150PG                            | 0              | 150   | psi                | -                             | 250                        | 250                         | 250                               | ±2%                                     | -                                                       | ±0.25%                                          |

<sup>1</sup>Working pressure: The maximum pressure that may be applied to any port of the sensor in continuous use. This pressure may be outside the operating pressure range limits (Pmin. to Pmax.) in which case the sensor may not provide a valid output until pressure is returned to within the operating pressure range. Tested to 1 million cycles, minimum.

<sup>2</sup>Overpressure: The maximum pressure which may safely be applied to the product for it to remain in specification once pressure is returned to the operating pressure range. Exposure to higher pressures may cause permanent damage to the product. Unless otherwise specified this applies to all available pressure ports at any temperature with the operating temperature range.

<sup>3</sup>Burst pressure: The maximum pressure that may be applied to any port of the product without causing escape of pressure media. Product should not be expected to function after exposure to any pressure beyond the burst pressure.

<sup>4</sup>Common mode pressure: The maximum pressure that can be applied simultaneously to both ports of a differential pressure sensor without causing changes in specified performance.

<sup>5</sup>Total Error Band: The maximum deviation from the ideal transfer function over the entire compensated temperature and pressure range. Includes all errors due to offset, full scale span, pressure non-linearity, pressure hysteresis, repeatability, thermal effect on offset, thermal effect on span, and thermal hysteresis

<sup>6</sup>Total Error Band after Auto-Zero: The maximum deviation from the ideal transfer function over the entire compensated pressure range at a constant temperature and supply voltage for a minimum of 24 hours after an auto-zero operation. Includes all errors due to full scale span, pressure non-linearity, pressure hysteresis, and thermal effect on span.

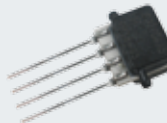
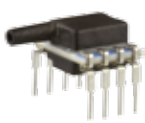
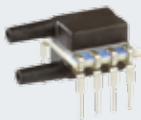
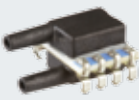
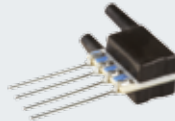
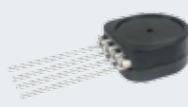
# Available Standard Configurations

Figure 5. All Available Standard Configurations (Dimensional drawings on pages noted below.)

| Package Code | Pressure Port                                                                                  |                                                                                                |                                                                                                  |
|--------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
|              | DIP                                                                                            | SMT                                                                                            | SIP                                                                                              |
| NN           | <br>page 19   | <br>page 21   | <br>page 24   |
| AA           | —                                                                                              | —                                                                                              | <br>page 24   |
| AN           | <br>page 19   | <br>page 22   | <br>page 25   |
| LN           | <br>page 19  | <br>page 22  | <br>page 25  |
| FF           | —                                                                                              | —                                                                                              | <br>page 25 |
| FN           | —                                                                                              | —                                                                                              | <br>page 26 |
| GN           | —                                                                                              | —                                                                                              | <br>page 26 |
| NB           | —                                                                                              | —                                                                                              | <br>page 26 |
| RN           | <br>page 20 | <br>page 22 | <br>page 27 |

# Available Standard Configurations

Figure 5. All Available Standard Configurations (Continued; dimensional drawings on pages noted below.)

| Package Code | Pressure Port                                                                                 |                                                                                               |                                                                                                  |
|--------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
|              | DIP                                                                                           | SMT                                                                                           | SIP                                                                                              |
| RR           | <br>page 20  | <br>page 23  | <br>page 27   |
| DR           | <br>page 20  | <br>page 23  | <br>page 27   |
| JN           | <br>page 21  | <br>page 23  | <br>page 28   |
| JJ           | <br>page 21 | <br>page 24 | <br>page 28  |
| HH           | —                                                                                             | —                                                                                             | <br>page 28 |
| HN           | —                                                                                             | —                                                                                             | <br>page 29 |
| MN           | —                                                                                             | —                                                                                             | <br>page 29 |
| SN           | —                                                                                             | —                                                                                             | <br>page 29 |

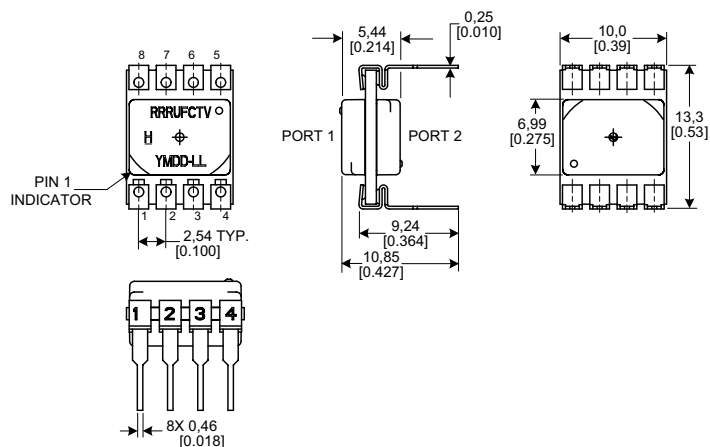
# Dimensional Drawings

## DIP Packages

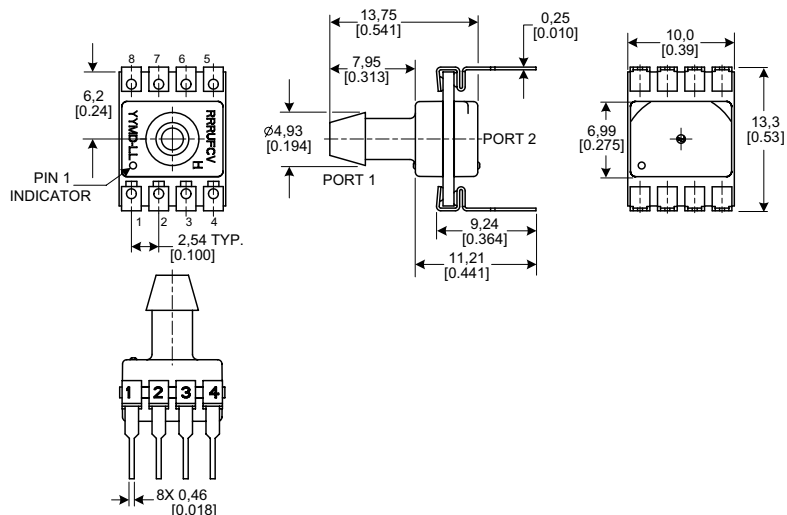
Figure 6. DIP Package Dimensional Drawings (For reference only: mm [in].)

### Dimensions

**DIP NN:** No ports



**DIP AN:** Single axial barbed port



**DIP LN:** Single axial barbless port



# Dimensional Drawings

## DIP Packages

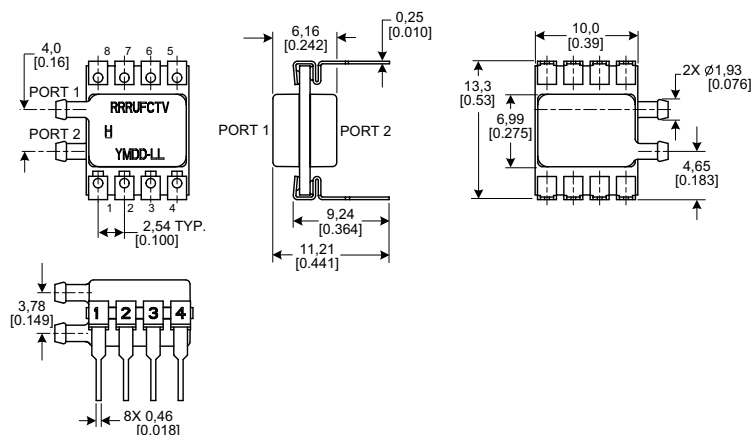
Figure 6. DIP Package Dimensional Drawings (continued)

### Dimensions

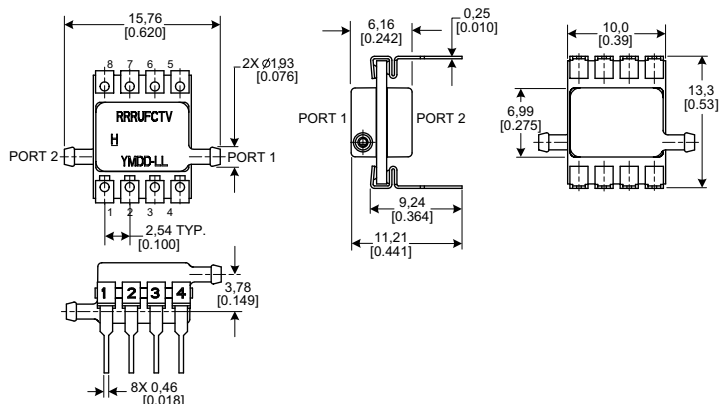
**DIP RN:** Single radial barbed port



**DIP RR:** Dual radial barbed ports, same side



**DIP DR:** Dual radial barbed ports, opposite sides



# Dimensional Drawings

## DIP and SMT Packages

Figure 6. DIP Package Dimensional Drawings (continued)

### Dimensions

**DIP JN:** Single radial barbless port



**DIP JJ:** Dual radial radial barbless ports, same side



Figure 7. SMT Package Dimensional Drawings (For reference only: mm [in].)

### Dimensions

**SMT NN:** No ports



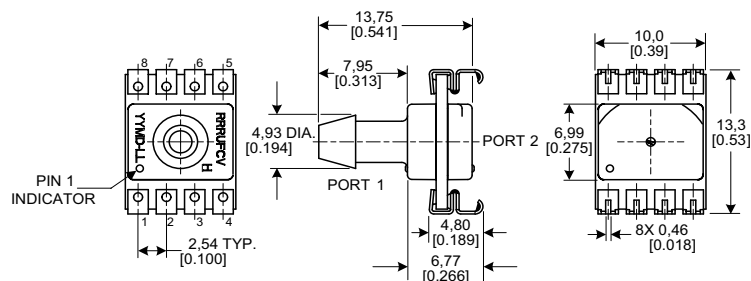
# Dimensional Drawings

## SMT Packages

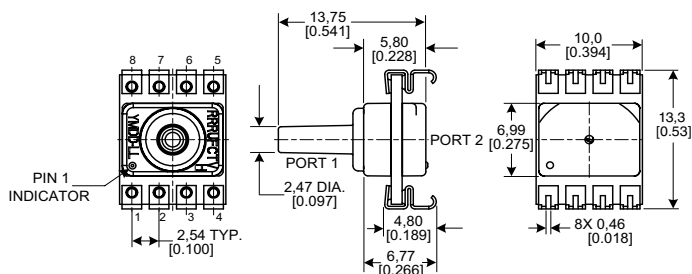
Figure 7. SMT Package Dimensional Drawings (continued)

### Dimensions

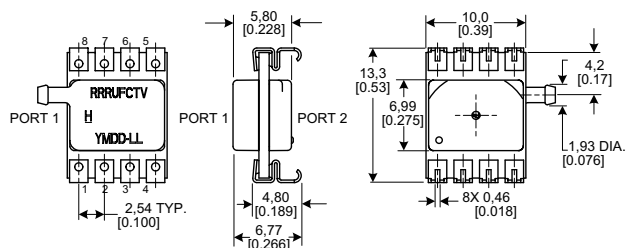
**SMT AN:** Single axial barbed port



**SMT LN:** Single axial barbless port



**SMT RN:** Single radial barbed port

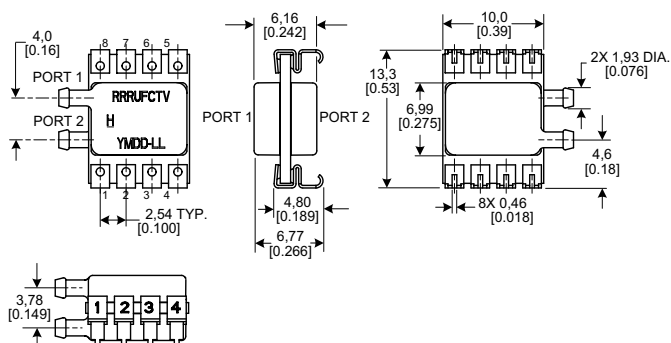


## SMT Packages

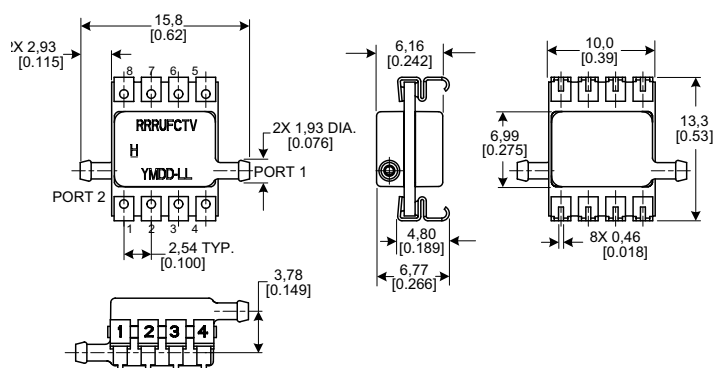
### Figure 7. SMT Package Dimensional Drawings (continued)

## Dimensions

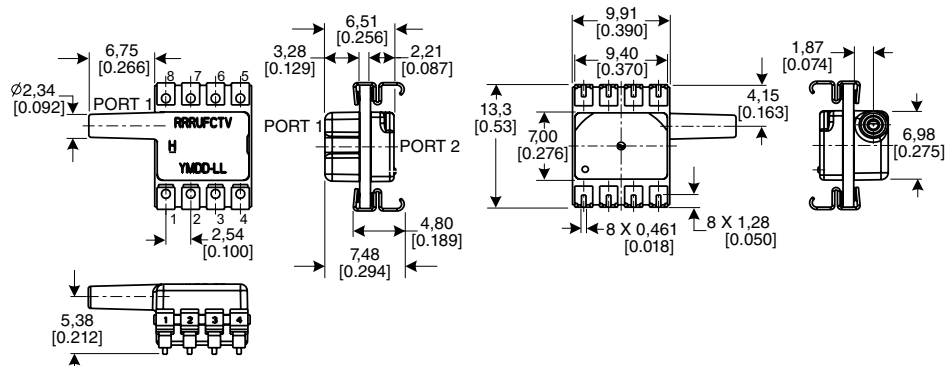
**SMT RR:** Dual radial barbed ports, same side



**SMT DR:** Dual radial barbed ports, opposite sides



**SMT JN:** Single radial barbless port



# Dimensional Drawings

## SMT and SIP Packages

Figure 7. SMT Package Dimensional Drawings (continued)

### Dimensions

**SMT JJ:** Dual radial  
barbless ports, same side



Figure 8. SIP Package Dimensional Drawings (For reference only: mm [in].)

### Dimensions

**SIP NN:** No ports



**SIP AA:** Dual axial barbed  
ports, opposite sides



# Dimensional Drawings

## SIP Packages

Figure 8. SIP Package Dimensional Drawings (continued)

### Dimensions

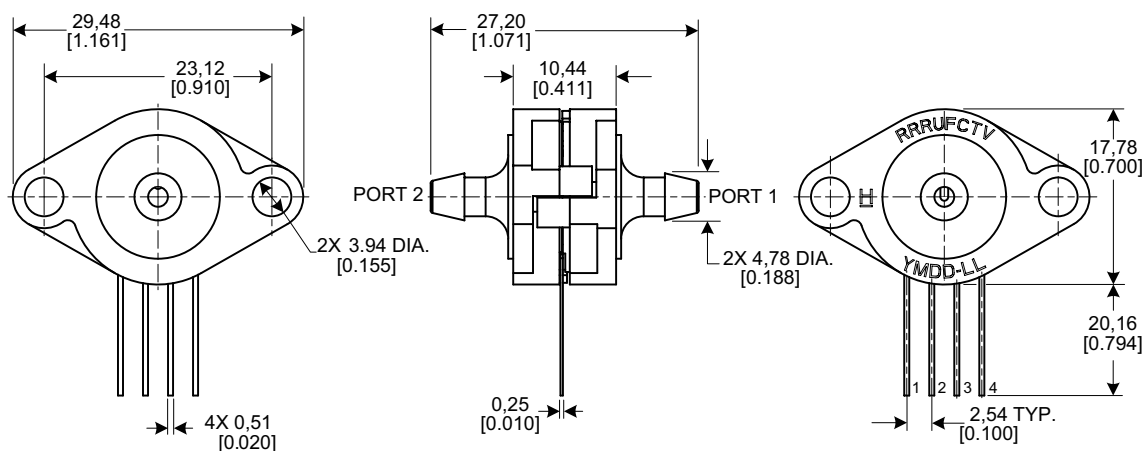
**SIP AN:** Single axial barbed port



**SIP LN:** Single axial barbless port



**SIP FF:** Fastener mount, dual axial barbed ports, opposite sides



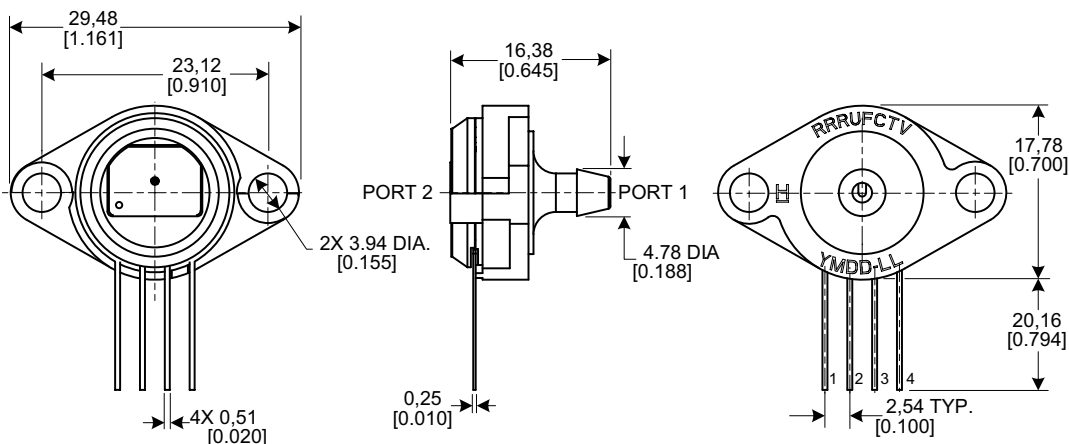
# Dimensional Drawings

## SIP Packages

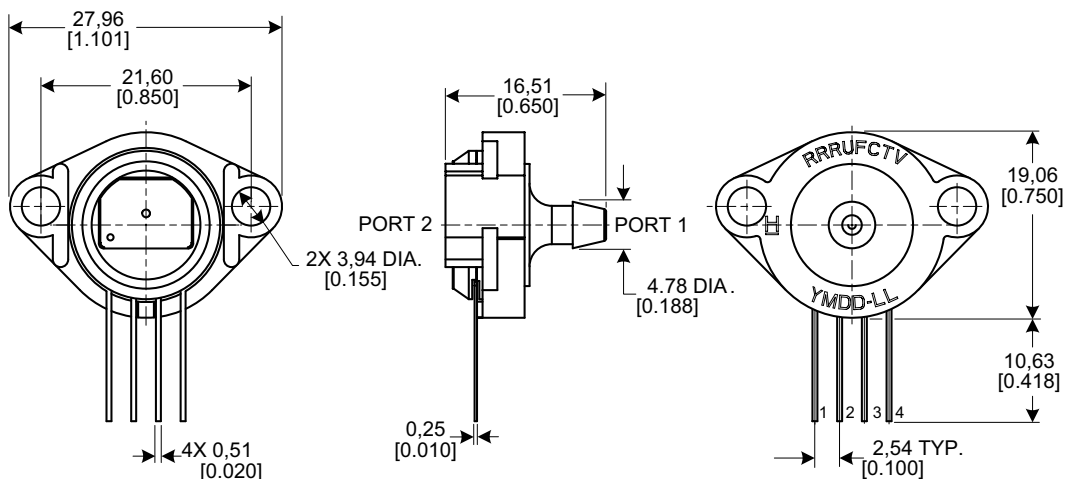
Figure 8. SIP Package Dimensional Drawings (continued)

### Dimensions

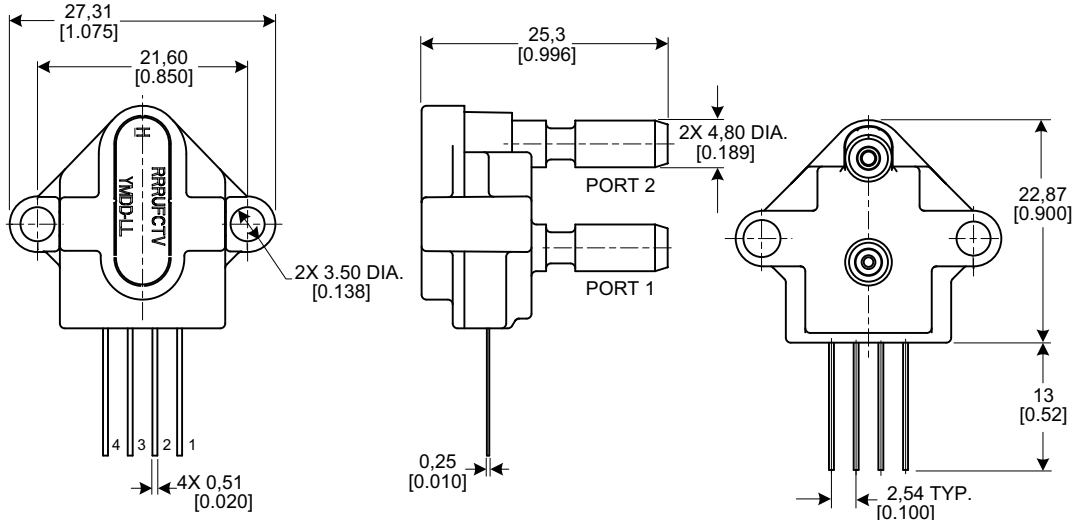
**SIP FN:** Fastener mount, single axial barbed port



**SIP GN:** Ribbed fastener mount, single axial barbed port



**SIP NB:** Fastener mount, dual axial ports, same side



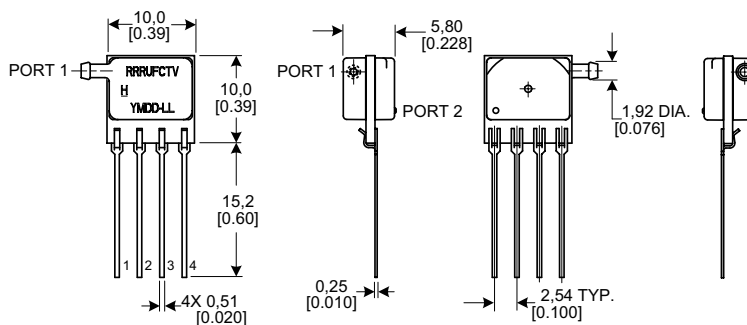
# Dimensional Drawings

## SIP Packages

Figure 8. SIP Package Dimensional Drawings (continued)

### Dimensions

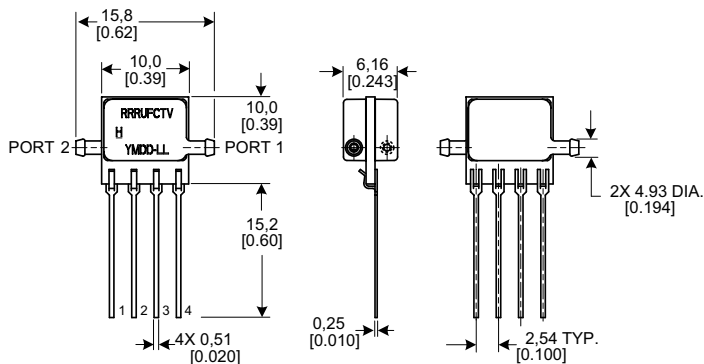
**SIP RN:** Single radial barbed port



**SIP RR:** Dual radial barbed ports, same side



**SIP DR:** Dual radial barbed ports, opposite sides



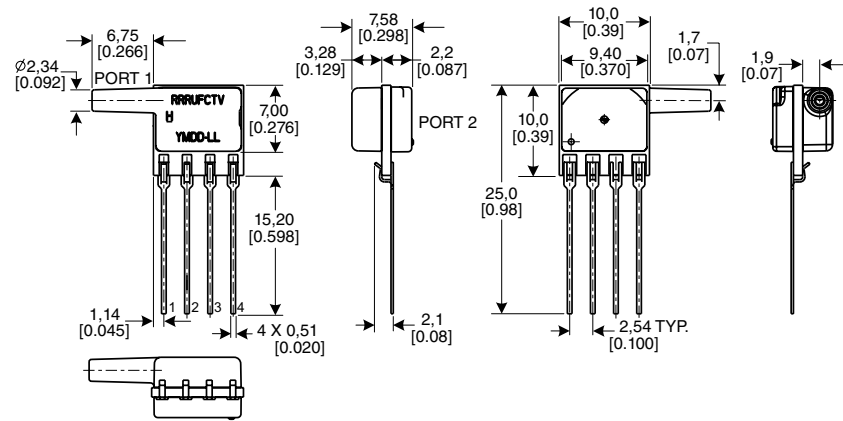
# Dimensional Drawings

## SIP Packages

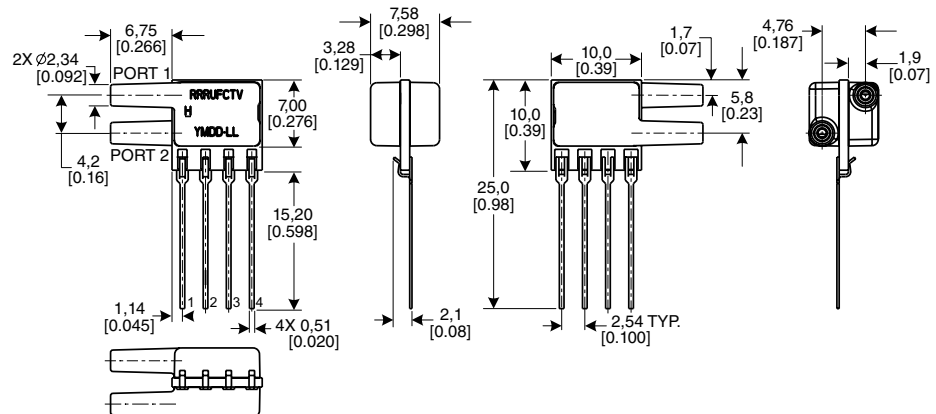
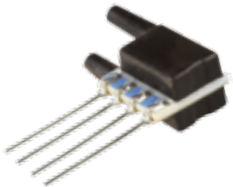
Figure 8. SIP Package Dimensional Drawings (continued)

### Dimensions

**SIP JN:** Single radial barbless port



**SIP JJ:** Dual radial barbless ports, same side



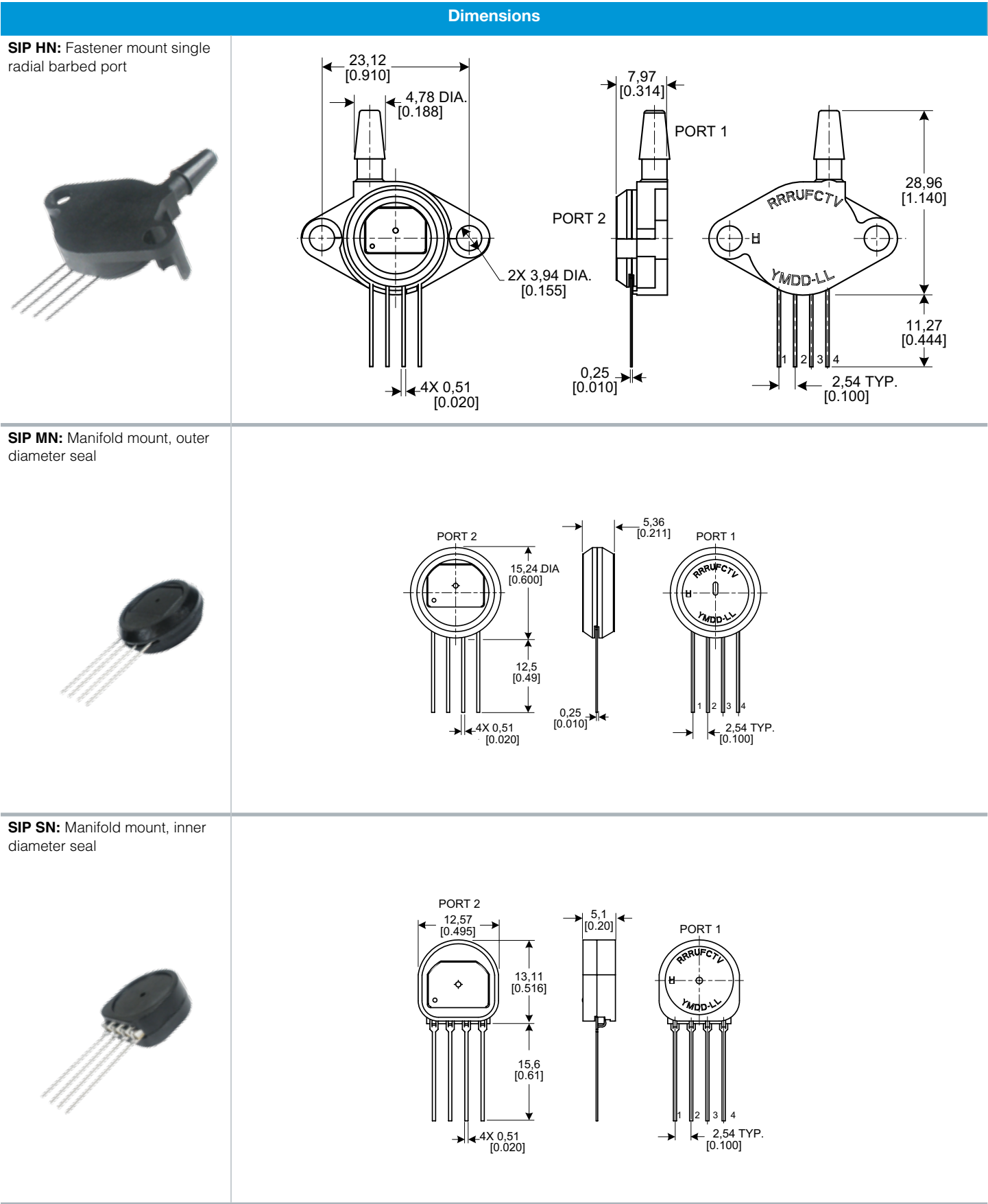
**SIP HH:** Fastener mount dual radial barbed ports, same side



# Dimensional Drawings

## SIP Packages

Figure 8. SIP Package Dimensional Drawings (continued)



# Pinouts, PCB Pad Layout

Table 11. Pinouts for DIP and SMT Packages

| Output Type      | Pin 1 | Pin 2               | Pin 3            | Pin 4 | Pin 5 | Pin 6 | Pin 7 | Pin 8 |
|------------------|-------|---------------------|------------------|-------|-------|-------|-------|-------|
| I <sup>2</sup> C | GND   | V <sub>supply</sub> | SDA              | SCL   | NC    | NC    | NC    | NC    |
| SPI              | GND   | V <sub>supply</sub> | MISO             | SCLK  | SS    | NC    | NC    | NC    |
| Analog           | NC    | V <sub>supply</sub> | V <sub>out</sub> | GND   | NC    | NC    | NC    | NC    |

Table 12. Pinouts for SIP Packages

| Output Type      | Pin 1 | Pin 2               | Pin 3            | Pin 4 |
|------------------|-------|---------------------|------------------|-------|
| I <sup>2</sup> C | GND   | V <sub>supply</sub> | SDA              | SCL   |
| Analog           | NC    | V <sub>supply</sub> | V <sub>out</sub> | GND   |

Figure 9. Recommended PCB Pad Layouts

| DIP | SMT | SIP |
|-----|-----|-----|
|     |     |     |

# TruStability® Board Mount Pressure Sensors Portfolio Overview

Table 13. TruStability® Board Mount Pressure Sensors Portfolio Overview

| Characteristic                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Series                    |                           |                           |                           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                | HSC                       | SSC                       | TSC                       | NSC                       |
| <b>Package:</b><br>DIP (Dual In-Line Pin)<br>SMT (Surface Mount Technology)<br>SIP (Single In-Line Pin)                                                                                                                                                                                                                                                                                                                                                        | ✓<br>✓<br>✓               | ✓<br>✓<br>✓               | ✓<br>✓<br>✓               | ✓<br>✓<br>✓               |
| <b>Option:</b><br>dry gases only, no diagnostics (all pressure ranges)<br>dry gases only, diagnostics on (all pressure ranges)<br>liquid media on port 1, no diagnostics (±60 mbar to ±10 bar   ±6 kPa to ±1 MPa   ±1 psi to ±150 psi)<br>liquid media on port 1, diagnostics on (±60 mbar to ±10 bar   ±6 kPa to ±1 MPa   ±1 psi to ±150 psi)                                                                                                                 | ✓<br>✓<br>✓<br>✓          | ✓<br>✓<br>✓<br>✓          | ✓<br>—<br>✓<br>—          | ✓<br>—<br>✓<br>—          |
| <b>Pressure range:</b><br><b>Absolute:</b><br>1 bar to 10 bar   100 kPa to 1 MPa   15 psi to 150 psi<br><b>Differential:</b><br>±60 mbar to ±10 bar   ±6 kPa to ±1 MPa   ±1 psi to ±150 psi<br>±1.6 mbar to ±40 mbar   ±160 Pa to ±4 kPa   ±0.5 inH <sub>2</sub> O to ±30 inH <sub>2</sub> O<br><b>Gage:</b><br>60 mbar to 10 bar   6 kPa to 1 MPa   1 psi to 150 psi<br>2.5 mbar to 40 mbar   250 Pa to 4 kPa   1 inH <sub>2</sub> O to 30 inH <sub>2</sub> O | ✓<br><br>✓<br>✓<br>✓<br>✓ | ✓<br><br>✓<br>✓<br>✓<br>✓ | —<br><br>✓<br>—<br>✓<br>— | ✓<br><br>✓<br>✓<br>✓<br>✓ |
| <b>Temperature compensated</b>                                                                                                                                                                                                                                                                                                                                                                                                                                 | ✓                         | ✓                         | ✓                         | —                         |
| <b>Amplified</b>                                                                                                                                                                                                                                                                                                                                                                                                                                               | ✓                         | ✓                         | —                         | —                         |
| <b>Output type:</b><br>analog<br>digital (SPI and I <sup>2</sup> C)                                                                                                                                                                                                                                                                                                                                                                                            | ✓<br>✓                    | ✓<br>✓                    | ✓<br>—                    | ✓<br>—                    |
| <b>Transfer function:</b><br>10% to 90% of V <sub>supply</sub> (analog), 2 <sup>14</sup> counts (digital)<br>5% to 95% of V <sub>supply</sub> (analog), 2 <sup>14</sup> counts (digital)<br>5% to 85% of V <sub>supply</sub> (analog), 2 <sup>14</sup> counts (digital)<br>4% to 94% of V <sub>supply</sub> (analog), 2 <sup>14</sup> counts (digital)                                                                                                         | ✓<br>✓<br>✓<br>✓          | ✓<br>✓<br>✓<br>✓          | —<br>—<br>—<br>—          | —<br>—<br>—<br>—          |
| <b>Supply voltage:</b><br>3.3 Vdc<br>5.0 Vdc<br>1.5 Vdc to 12.0 Vdc (for pressure ranges ≥60 mbar   6 kPa   1 psi)<br>2.7 Vdc to 6.5 Vdc (for pressure ranges ≤40 mbar   4 kPa   20 inH <sub>2</sub> O)                                                                                                                                                                                                                                                        | ✓<br>✓<br>—<br>—          | ✓<br>✓<br>—<br>—          | —<br>—<br>✓<br>—          | —<br>—<br>✓<br>✓          |
| <b>Accuracy ≤0.25 %FSS BFSL</b>                                                                                                                                                                                                                                                                                                                                                                                                                                | ✓                         | ✓                         | ✓                         | ✓                         |
| <b>Compensated temperature range:</b><br>-20 °C to 85 °C [-4 °F to 185 °F]<br>0 °C to 85 °C [32 °F to 185 °F]<br>0 °C to 50 °C [32 °F to 122 °F]                                                                                                                                                                                                                                                                                                               | —<br>—<br>✓               | ✓<br>—<br>—               | —<br>✓<br>—               | —<br>—<br>—               |
| <b>Operating temperature range:</b><br>-20 °C to 85 °C [-4 °F to 185 °F]<br>-40 °C to 85 °C [-40 °F to 185 °F]                                                                                                                                                                                                                                                                                                                                                 | ✓<br>—                    | —<br>✓                    | —<br>✓                    | —<br>✓                    |
| <b>Total Error Band:</b><br>down to ±1% Full Scale Span max.<br>down to ±2% Full Scale Span max.                                                                                                                                                                                                                                                                                                                                                               | ✓<br>—                    | —<br>✓                    | —<br>—                    | —<br>—                    |

## ADDITIONAL INFORMATION

The following associated literature is available at [sensing.honeywell.com](http://sensing.honeywell.com):

- Product line guide
- Product range guide
- Product nomenclature tree
- Installation instructions
- Application information
- Technical notes
  - I<sup>2</sup>C Communications with Honeywell Digital Output Pressure Sensors
  - SPI Communications with Honeywell Digital Output Pressure Sensors

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#### **PERSONAL INJURY**

**DO NOT USE** these products as safety or emergency stop devices or in any other application where failure of the product could result in personal injury.

**Failure to comply with these instructions could result in death or serious injury.**

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- Complete installation, operation, and maintenance information is provided in the instructions supplied with each product.

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|               |                         |
|---------------|-------------------------|
| Asia Pacific  | +65 6355-2828           |
|               | +65 6445-3033 Fax       |
| Europe        | +44 (0) 1698 481481     |
|               | +44 (0) 1698 481676 Fax |
| Latin America | +1-305-805-8188         |
|               | +1-305-883-8257 Fax     |
| USA/Canada    | +1-800-537-6945         |
|               | +1-815-235-6847         |
|               | +1-815-235-6545 Fax     |

Sensing and Control  
Honeywell  
1985 Douglas Drive North  
Golden Valley, MN 55422  
**honeywell.com**

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#### Как с нами связаться

**Телефон:** 8 (812) 309 58 32 (многоканальный)

**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.