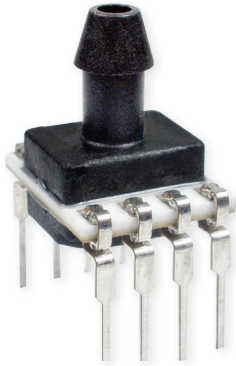


SSC SERIES

50099533
Issue B

TruStability® Board Mount Pressure Sensors

SSC Series – Standard Accuracy, Compensated/Amplified ± 1.6 mbar to ± 10 bar, ± 160 Pa to ± 1 MPa, ± 0.5 inH₂O to ± 150 psi
Digital or Analog Output



DESCRIPTION

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 nonlinearity 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 inH₂O

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

DIFFERENTIATION

Stability and reliability you can count on

- Industry-leading accuracy down to ± 0.25 %FSS BFS
- Port and housing options simplify integration
- Wide pressure range from
 - ± 1.6 mbar to ± 10 bar
 - ± 160 Pa to ± 1 MPa
 - ± 0.5 inH₂O to ± 150 psi
- Small package size
- Extremely low power consumption

FEATURES

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

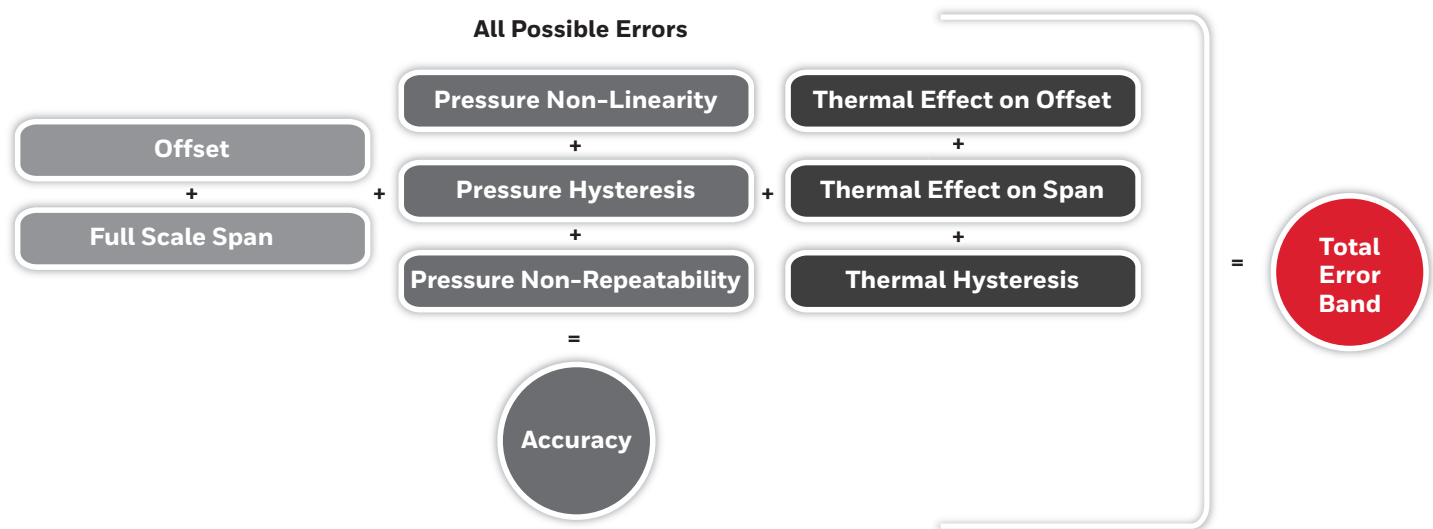
PORTFOLIO

The SSC Series joins an extensive line of board mount pressure sensors. To learn more about the product, or the many other board mount pressure sensors in this series, [click here](#).

Honeywell

TRU STABILITY® BOARD MOUNT PRESSURE SENSORS SSC SERIES

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



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

Industry-leading accuracy

Extremely tight accuracy of $\pm 0.25\%$ FSS BFSL (Full Scale Span Best Fit Straight Line) reduces software needed 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 ± 1.6 mbar to ± 10 bar, ± 160 Pa to ± 1 MPa, ± 0.5 inH₂O to 150 psi provide support for many unique applications.

Meets IPC/JEDEC, J-STD-020E moisture sensitivity level 2 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 storage life when stored inside sealed moisture barrier bag
- Never requires lengthy bakes prior to reflow
- Stable and usable shortly after reflow process allows for lean manufacturing

TRU STABILITY® BOARD MOUNT PRESSURE SENSORS SSC SERIES

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

Output: ratiometric analog; I²C- 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 inH₂O

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

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TRU STABILITY® BOARD MOUNT PRESSURE SENSORS SSC SERIES

General Specifications

TABLE 1. ABSOLUTE MAXIMUM RATINGS¹

Characteristic	Min.	Max.	Unit
Supply voltage (V_{supply})	-0.3	6.0	Vdc
Voltage on any pin	-0.3	$V_{\text{supply}} + 0.3$	V
Digital interface clock frequency:			
I ² 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]		

¹Absolute 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 Hz)
Shock	MIL-STD-202G, Method 213B, Condition C (100 g, 6 ms duration)
Life ¹	1 million pressure cycles minimum
Solder reflow	J-STD-020E, MSL 2 (see shelf/floor life) (unlimited shelf life when stored at ≤30°C/85 % RH)
Shelf life	Unlimited storage life, inside sealed moisture barrier bag
Floor life ²	1 year floor life, after removal from sealed moisture bag, <30°C & <60 %RH

¹Life may vary depending on specific application in which the sensor is utilized.

²Floor life, the maximum recommended time period after removal from a moisture barrier bag or dry storage prior to solder reflow. If the maximum recommended floor time is exceeded parts may require to be baked at 85°C for up to 12 hrs prior to solder reflow.

TABLE 3. WETTED MATERIALS¹

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	ceramic, silicon, glass solder

¹Contact 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.

TRU STABILITY® BOARD MOUNT PRESSURE SENSORS SSC SERIES

General Specifications

TABLE 4. SENSOR 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_{supply}): ^{1, 2, 3} pressure ranges ≥ 60 mbar, 6 kPa, 1 psi: 3.3 Vdc 5.0 Vdc pressure ranges ≤ 40 mbar, 4 kPa, 20 inH ₂ O: 3.3 Vdc 5.0 Vdc	3.0 4.75 3.27 4.95	3.3 5.0 3.3 5.0	3.6 5.25 3.33 5.05	Vdc
Supply current: 3.3 Vdc 5.0 Vdc	– –	2.1 2.7	2.8 3.5	mA
Operating temperature range ⁴	-40 [-40]	–	85 [185]	°C [°F]
Compensated temperature range ⁵	-20 [-4]	–	85 [185]	°C [°F]
Startup time (power up to data ready)	–	–	5	ms
Response time	–	1	–	ms
Clipping limit: upper lower	– 2.5	– –	97.5 –	%Vsupply
Accuracy ⁶	–	–	± 0.25	%FSS BFS ⁸
Output resolution	0.03	–	–	%FSS
Orientation sensitivity (± 1 g): ^{7, 9} pressure ranges ≤ 40 mbar, 4 kPa, 20 inH ₂ O pressure ranges ≤ 2.5 mbar, 250 Pa, 1 inH ₂ O	– –	± 0.1 ± 0.2	– –	%FSS ⁸

¹Sensors are either 3.3 Vdc or 5.0 Vdc based on the catalog listing selected.

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

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

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

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

⁶Accuracy: The maximum deviation in output from a Best Fit Straight Line (BFS⁸) 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.

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

⁸Full 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.)

⁹Insignificant for pressure ranges above 40 mbar, 4 kPa, 20 inH₂O.

TRU STABILITY® BOARD MOUNT PRESSURE SENSORS SSC SERIES

Digital Operating Specifications

TABLE 6. DIGITAL OPERATING SPECIFICATIONS

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

¹Sensors are either 3.3 Vdc or 5.0 Vdc based on the catalog listing selected.

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

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

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

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

⁶Accuracy: 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.

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

⁸Full 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.)

⁹Insignificant for pressure ranges above 40 mbar, 4 kPa, 20 inH₂O.

TABLE 7. SENSOR OUTPUT AT SIGNIFICANT PERCENTAGES (DIGITAL VERSIONS ONLY)

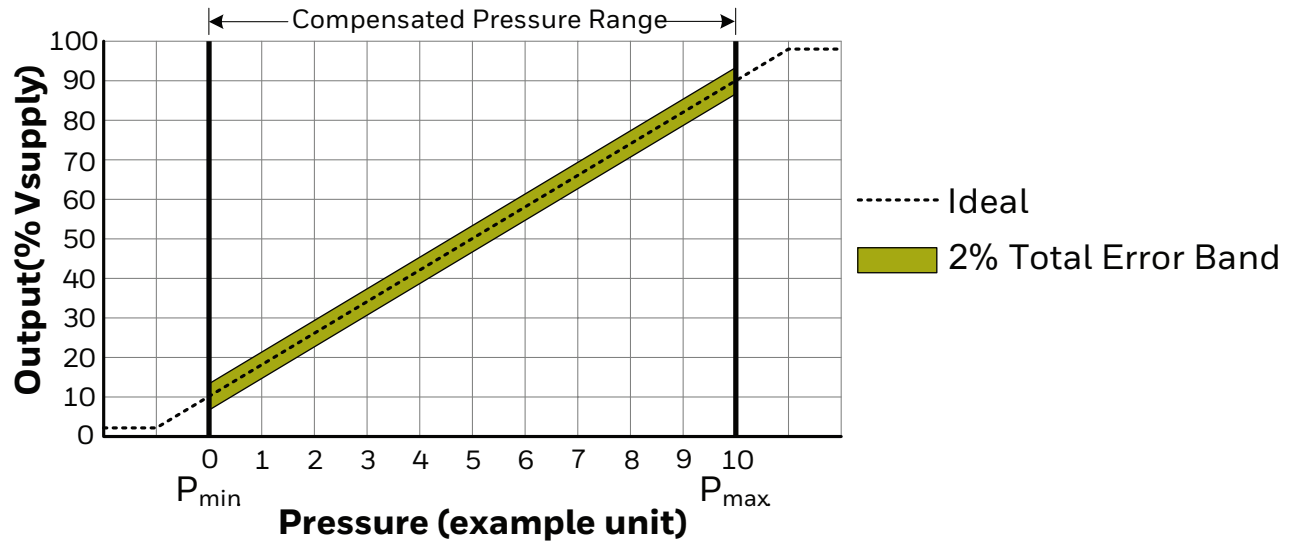
% Output	Digital Counts (decimal)	Digital Counts (hex)
0	0	0x0000
10	1638	0x0666
50	8192	0x2000
90	14746	0x399A
100	16383	0x3FFF

TRU STABILITY® BOARD MOUNT PRESSURE SENSORS SSC SERIES

Transfer Function Limits

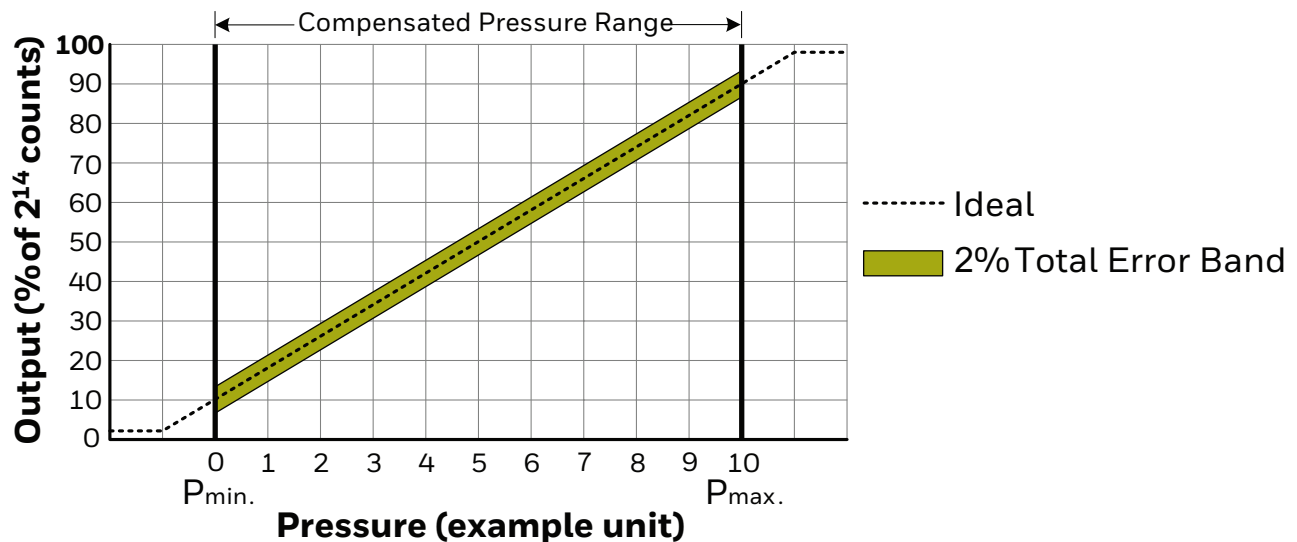
Figure 2. Transfer Function Limits¹

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



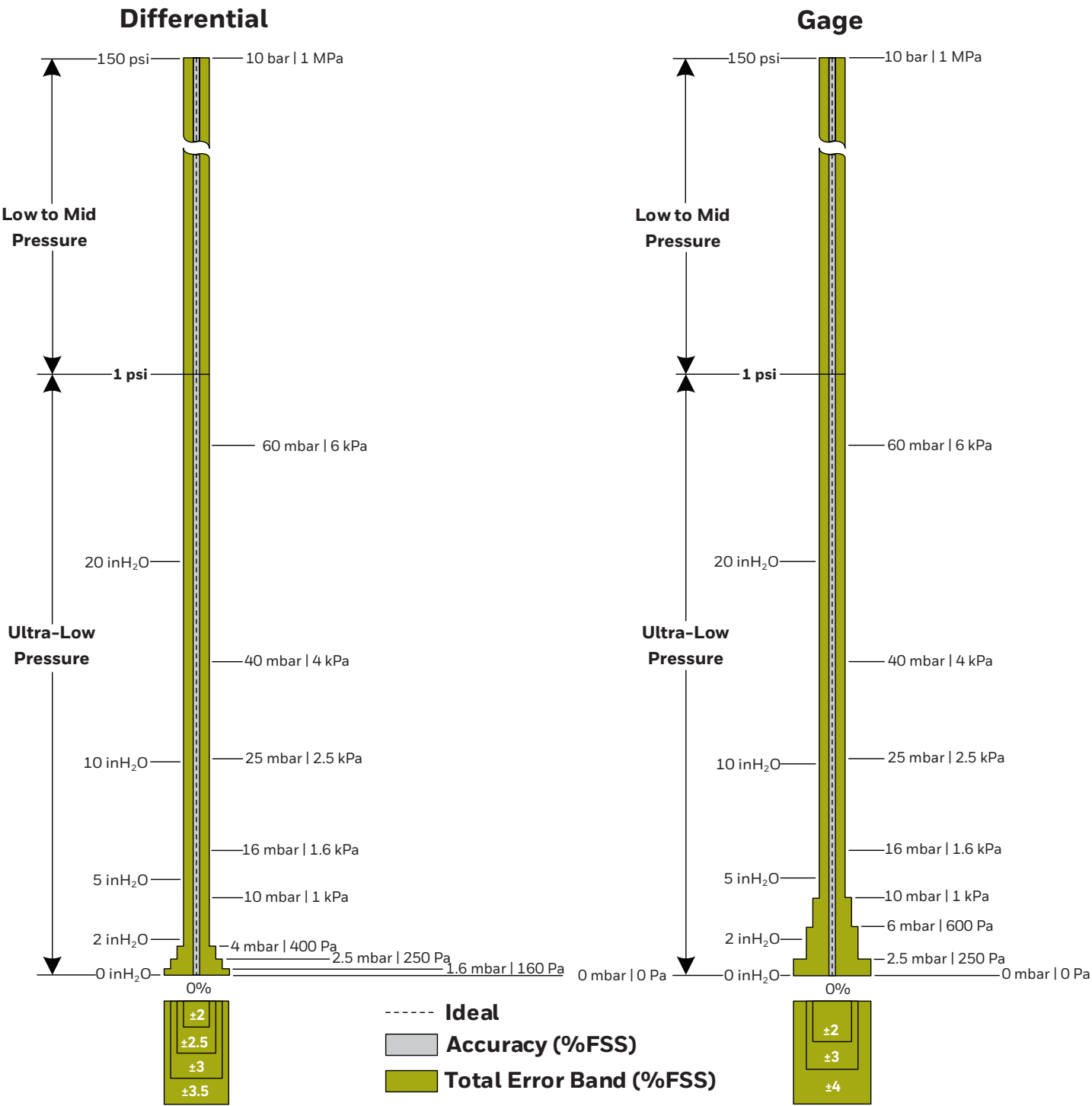
$$\text{Output(\% of } 2^{14} \text{ counts)} = \frac{80 \%}{P_{\text{max}} - P_{\text{min}}} \times (\text{Pressure}_{\text{applied}} - P_{\text{min}}) + 10\%$$

¹Transfer Function "A" is shown. See Figure 4 for other available transfer functions.

TRU STABILITY® BOARD MOUNT PRESSURE SENSORS
SSC SERIES

Total Error Band Values

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



TRU STABILITY® BOARD MOUNT PRESSURE SENSORS SSC SERIES

Nomenclature and Order Guide

Figure 4. Nomenclature and Order Guide¹

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 PG A A 3			Supply Voltage
Product Series SSC High Accuracy, Compensated/Amplified			3 3.3 Vdc 5 5.0 Vdc
Package D DIP (Dual Inline Pin) M SMT (Surface Mount Technology) S SIP (Single Inline Pin)			Transfer Function¹ A 10% to 90% of Vsupply (analog), 2 ¹⁴ counts (digital) B 5% to 95% of Vsupply (analog), 2 ¹⁴ counts (digital) C 5% to 85% of Vsupply (analog), 2 ¹⁴ counts (digital) F 4% to 94% of Vsupply (analog), 2 ¹⁴ counts (digital)
Pressure Port DIP SMT SIP			Output Type² A Analog S SPI 2 I ² C, Address 0x28 3 I ² C, Address 0x38 4 I ² C, Address 0x48 5 I ² C, Address 0x58 6 I ² C, Address 0x68 7 I ² C, Address 0x78
Pressure Range^{3,4} ±1.6 mbar to ±10 bar Absolute ±160 Pa to ±1 MPa Absolute ±0.5 inH ₂ O to ±150 psi Absolute			
Differential 1.6MD ±1.6 mbar 2.5MD ±2.5 mbar 004MD ±4 mbar 006MD ±6 mbar 010MD ±10 mbar 016MD ±16 mbar 025MD ±25 mbar 040MD ±40 mbar 060MD ±60 mbar 100MD ±100 mbar 160MD ±160 mbar 250MD ±250 mbar 400MD ±400 mbar 600MD ±600 mbar 001BD ±1 bar 1.6BD ±1.6 bar 2.5BD ±2.5 bar 004BD ±4 bar			Differential 160LD ±160 Pa 250LD ±250 Pa 400LD ±400 Pa 600LD ±600 Pa 001KD ±1 kPa 1.6KD ±1.6 kPa 2.5KD ±2.5 kPa 004KD ±4 kPa 006KD ±6 kPa 010KD ±10 kPa 016KD ±16 kPa 025KD ±25 kPa 040KD ±40 kPa 060KD ±60 kPa 100KD ±100 kPa 160KD ±160 kPa 250KD ±250 kPa 400KD ±400 kPa
Gage 2.5MG 0 mbar to 2.5 mbar 004MG 0 mbar to 4 mbar 006MG 0 mbar to 6 mbar 010MG 0 mbar to 10 mbar 016MG 0 mbar to 16 mbar 025MG 0 mbar to 25 mbar 040MG 0 mbar to 40 mbar 060MG 0 mbar to 60 mbar 100MG 0 mbar to 100 mbar 160MG 0 mbar to 160 mbar 250MG 0 mbar to 250 mbar 400MG 0 bar to 400 mbar 600MG 0 bar to 600 mbar 001BG 0 bar to 1 bar 1.6BG 0 bar to 1.6 bar 2.5BG 0 bar to 2.5 bar 004BG 0 bar to 4 bar 006BG 0 bar to 6 bar 010BG 0 bar to 10 bar			Gage 250LG 0 Pa to 250 Pa 400LG 0 Pa to 400 Pa 600LG 0 Pa to 600 Pa 001KG 0 kPa to 1 kPa 1.6KG 0 kPa to 1.6 kPa 2.5KG 0 kPa to 2.5 kPa 004KG 0 kPa to 4 kPa 006KG 0 kPa to 6 kPa 010KG 0 kPa to 10 kPa 016KG 0 kPa to 16 kPa 025KG 0 kPa to 25 kPa 040KG 0 kPa to 40 kPa 060KG 0 kPa to 60 kPa 100KG 0 kPa to 100 kPa 160KG 0 kPa to 160 kPa 250KG 0 kPa to 250 kPa 400KG 0 kPa to 400 kPa 600KG 0 kPa to 600 kPa 001GG 0 kPa to 1 MPa
Options^{5,6} N Dry gases only, no diagnostics D Dry gases only, diagnostics on T Liquid media on Port 1, no diagnostics V Liquid media on Port 1, diagnostics on			Differential 0.5ND ±0.5 inH ₂ O 001ND ±1 inH ₂ O 002ND ±2 inH ₂ O 004ND ±4 inH ₂ O 005ND ±5 inH ₂ O 010ND ±10 inH ₂ O 020ND ±20 inH ₂ O 030ND ±30 inH ₂ O 001PD ±1 psi 005PD ±5 psi 015PD ±15 psi 030PD ±30 psi 060PD ±60 psi
Pressure Port DIP SMT SIP			Gage 001NG 0 inH ₂ O to 1 inH ₂ O 002NG 0 inH ₂ O to 2 inH ₂ O 004NG 0 inH ₂ O to 4 inH ₂ O 005NG 0 inH ₂ O to 5 inH ₂ O 010NG 0 inH ₂ O to 10 inH ₂ O 020NG 0 inH ₂ O to 20 inH ₂ O 030NG 0 inH ₂ O to 30 inH ₂ O 001PG 0 psi to 1 psi 005PG 0 psi to 5 psi 015PG 0 psi to 15 psi 030PG 0 psi to 30 psi 060PG 0 psi to 60 psi 100PG 0 psi to 100 psi 150PG 0 psi to 150 psi

¹The 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.

²SPI output function is not available in SIP package.

³Custom pressure ranges are available. Contact Honeywell Customer Service for more information.

⁴See the explanation of sensor pressure types in Table 4.

⁵See the CAUTION in this document.

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

TRU STABILITY® BOARD MOUNT PRESSURE SENSORS SSC SERIES

Pressure Range Specifications ± 1.6 mbar to ± 10 bar

TABLE 8. PRESSURE RANGE SPECIFICATIONS FOR ± 1.6 MBAR TO ± 10 BAR

Pressure Range (see Figure 4)	Pressure Range		Unit	Working Pressure ¹	Over Pressure ²	Burst Pressure ³	Common Mode Pressure ⁴	Total Error Band ⁵ (%FSS)	Total Error Band after Auto-Zero ⁶ (%FSS)	Long-term Stability 1000 hr, 25 °C (%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 %	±2.75 %	±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 %

¹Working 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.

²Overpressure: 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.

³Burst 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.

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

⁵Total 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).

⁶Total 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.

TRU STABILITY® BOARD MOUNT PRESSURE SENSORS SSC SERIES

Pressure Range Specifications ±160 Pa to ±1 MPa

TABLE 9. PRESSURE RANGE SPECIFICATIONS FOR ±160 PA TO ±1 MPA										
Pressure Range (see Figure 4)	Pressure Range		Unit	Working Pressure ¹	Over Pressure ²	Burst Pressure ³	Common Mode Pressure ⁴	Total Error Band ⁵ (%FSS)	Total Error Band after Auto-Zero ⁶ (%FSS)	Long-term Stability 1000 hr, 25 °C (%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 %

¹Working 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.

²Overpressure: 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.

³Burst 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.

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

⁵Total 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).

⁶Total 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.

TRU STABILITY® BOARD MOUNT PRESSURE SENSORS SSC SERIES

Specifications ±0.5 inH₂O to ±150 psi

TABLE 10. PRESSURE RANGE SPECIFICATIONS FOR 0.5 INH₂O TO 150 PSI

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

¹Working 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.

²Overpressure: 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.

³Burst 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.

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

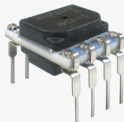
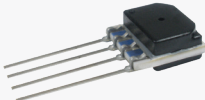
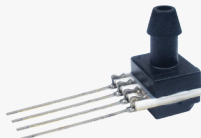
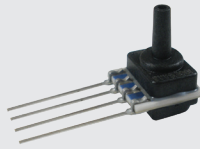
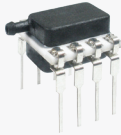
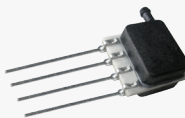
⁵Total Error Band: The maximum deviation from the ideal transfer function over the entire compensated temperature and pressure range. Includes all errors due to offset, full scale span, pressure non-linearity, pressure hysteresis, repeatability, thermal effect on offset, thermal effect on span, and thermal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

⁶Total 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.

TRU STABILITY® BOARD MOUNT PRESSURE SENSORS
SSC SERIES

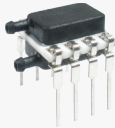
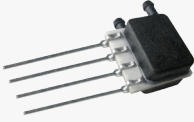
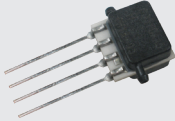
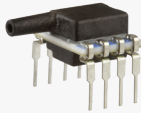
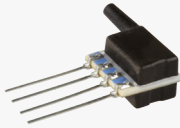
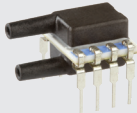
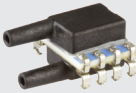
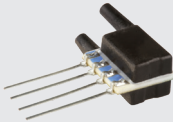
Available Standard Configurations

FIGURE 5. ALL AVAILABLE STANDARD CONFIGURATIONS (DIMENSIONAL DRAWINGS ON PAGES NOTED BELOW.)

Package Code	Pressure Port		
	DIP	SMT	SIP
NN	page 16 	page 18 	page 21 
AA	—	—	page 21 
AN	page 16 	page 19 	page 22 
LN	page 16 	page 19 	page 22 
FF	—	—	page 22 
FN	—	—	page 23 
GN	—	—	page 23 
NB	—	—	page 23 
RN	page 17 	page 19 	page 24 

TRU STABILITY® BOARD MOUNT PRESSURE SENSORS **SSC SERIES**

Available Standard Configurations

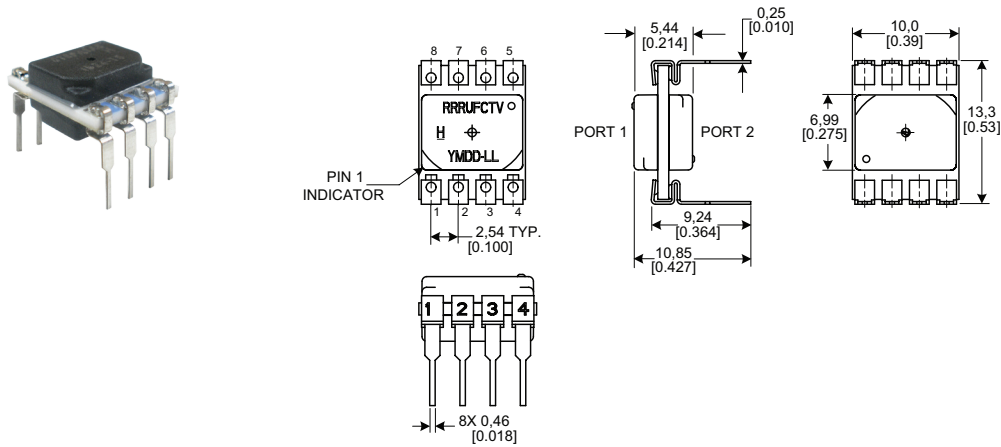
FIGURE 5. ALL AVAILABLE STANDARD CONFIGURATIONS (DIMENSIONAL DRAWINGS ON PAGES NOTED BELOW.)			
Package Code	Pressure Port		
	DIP	SMT	SIP
RR	 page 17	 page 20	 page 24
DR	 page 17	 page 20	 page 24
JN	 page 18	 page 20	 page 25
JJ	 page 18	 page 21	 page 25
HH	—	—	 page 25
HN	—	—	 page 26
MN	—	—	 page 26
SN	—	—	 page 26

TRU STABILITY® BOARD MOUNT PRESSURE SENSORS SSC SERIES

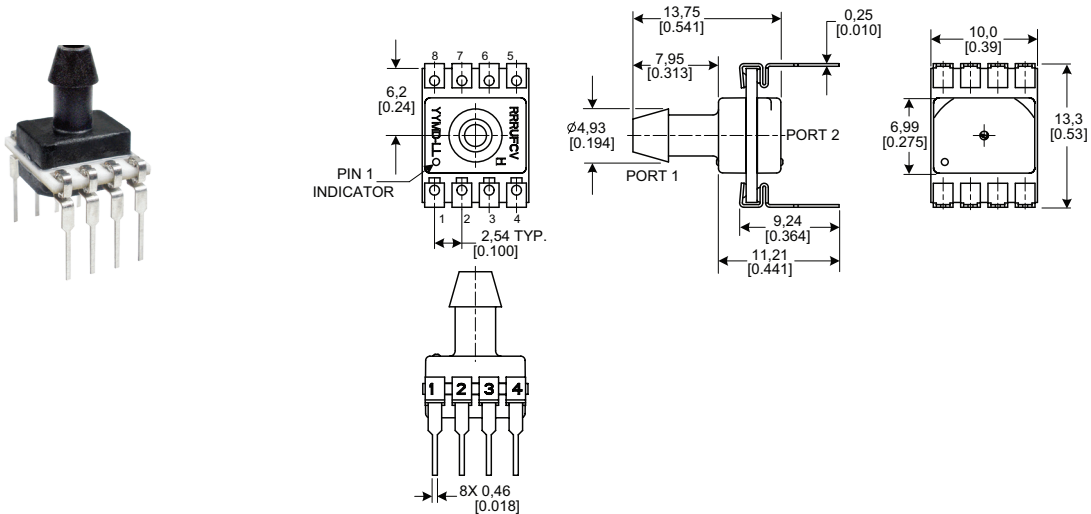
Dimensional Drawings DIP Packages

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

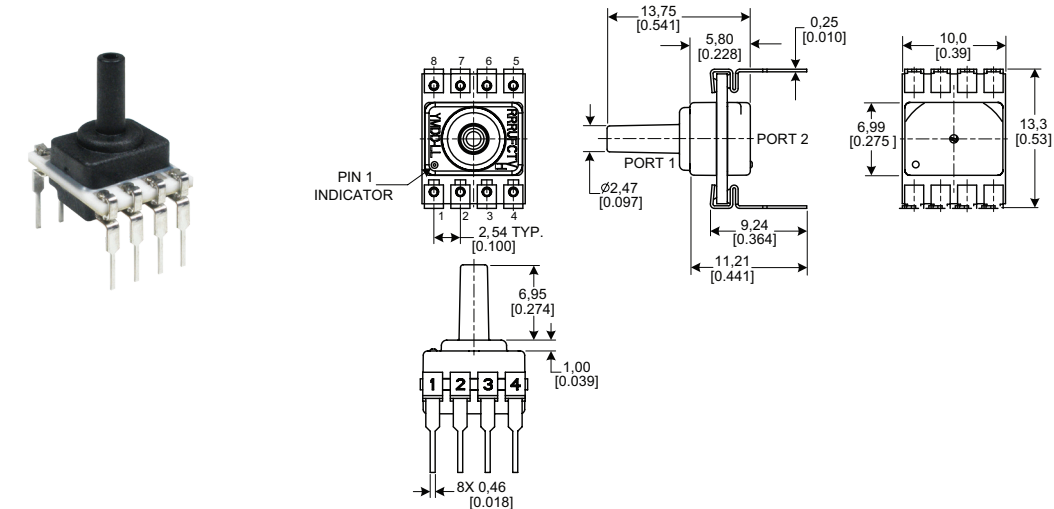
DIP NN: No ports



DIP AN: Single axial barbed port



DIP LN: Single axial barbless port

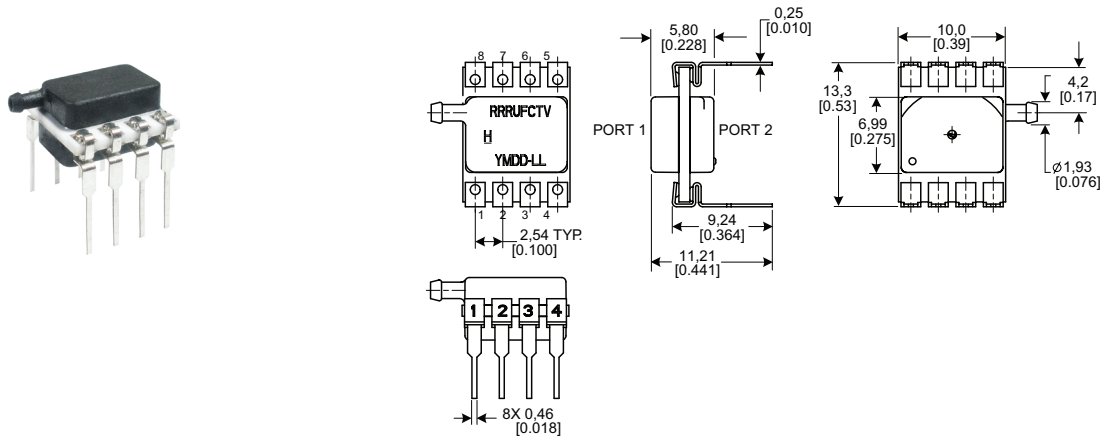


TRU STABILITY® BOARD MOUNT PRESSURE SENSORS **SSC SERIES**

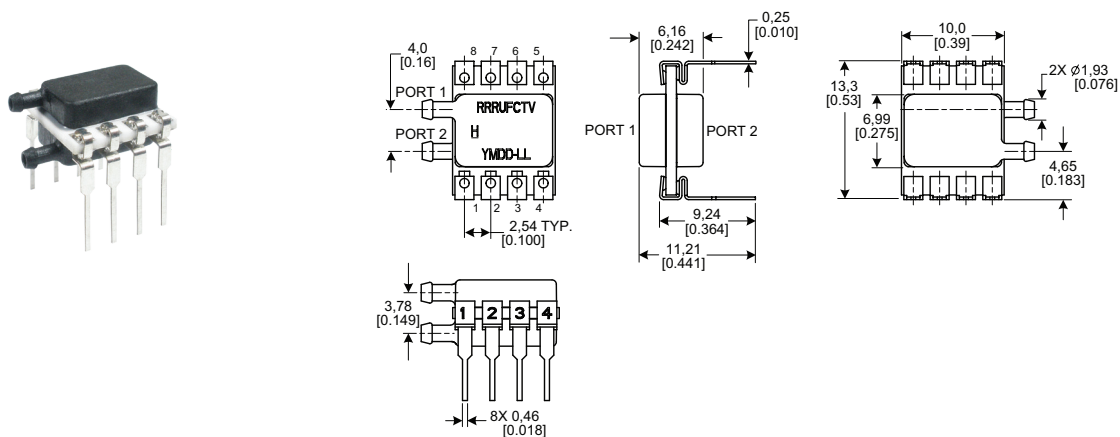
Dimensional Drawings DIP Packages

Figure 6. DIP Package Dimensional Drawings (continued)

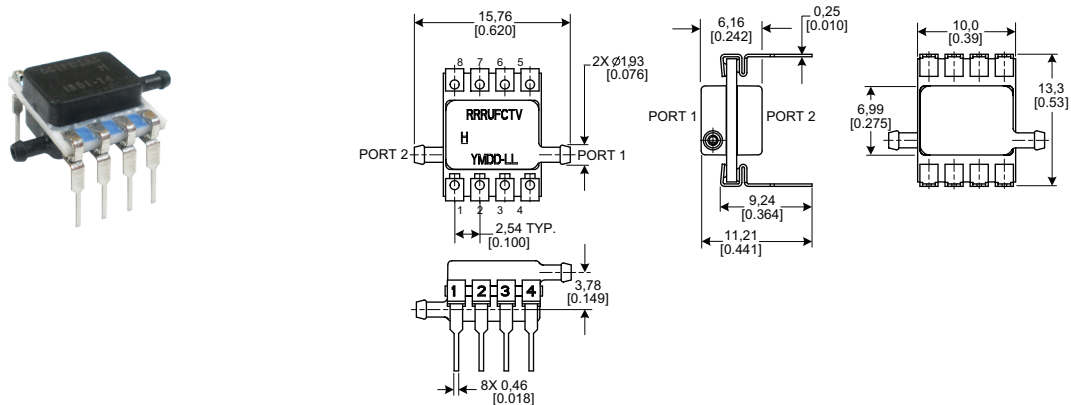
DIP RN: Single radial barbed port



DIP RR: Dual radial barbed ports, same side



DIP DR: Dual radial barbed ports, opposite sides

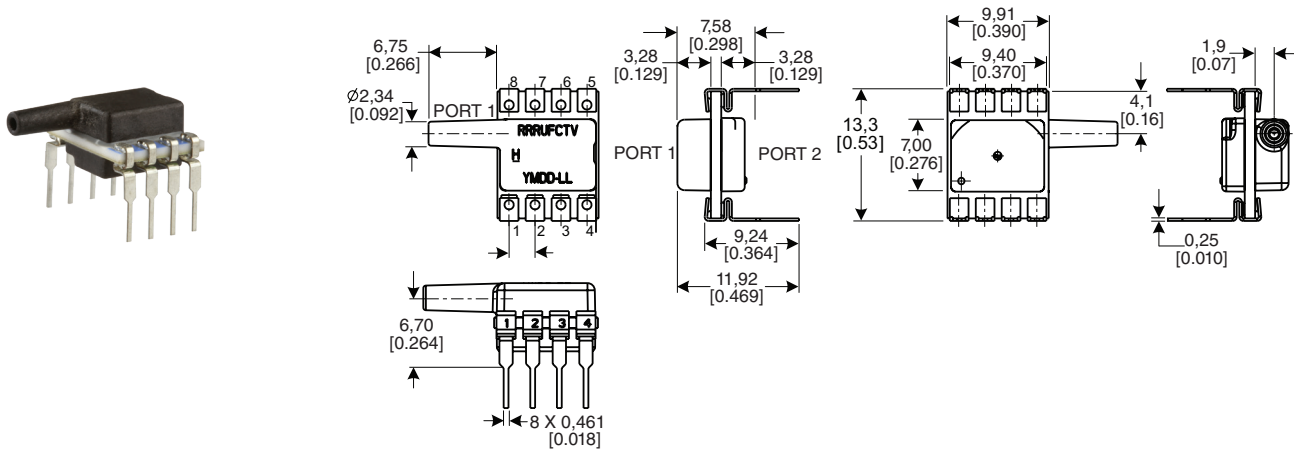


TRU STABILITY® BOARD MOUNT PRESSURE SENSORS **SSC SERIES**

Dimensional Drawings DIP Packages

Figure 6. DIP Package Dimensional Drawings (continued)

DIP JN: Single radial barbless port



DIP JJ: Dual radial barbless ports, same side

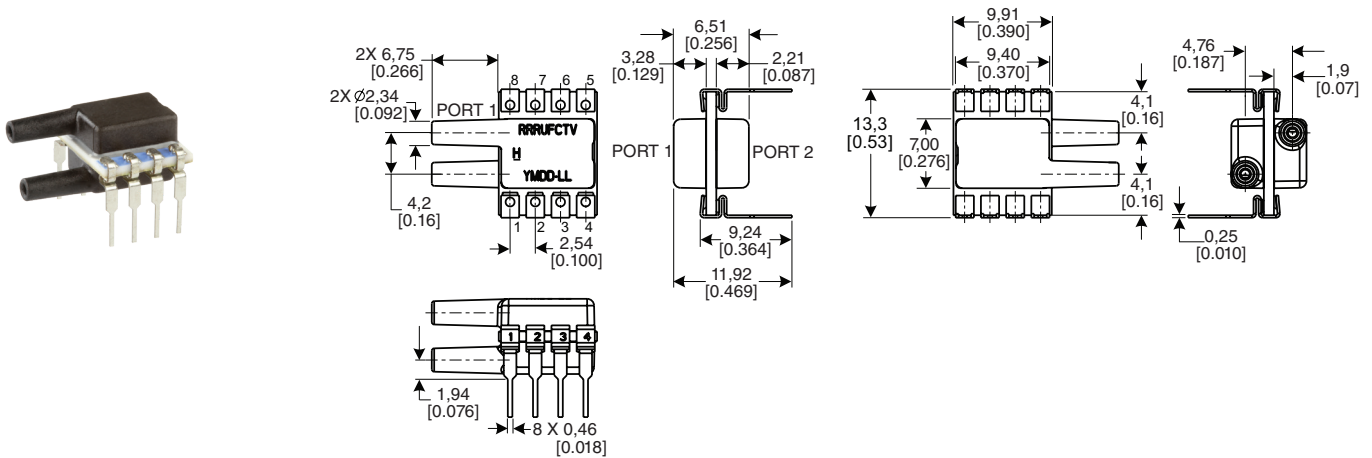
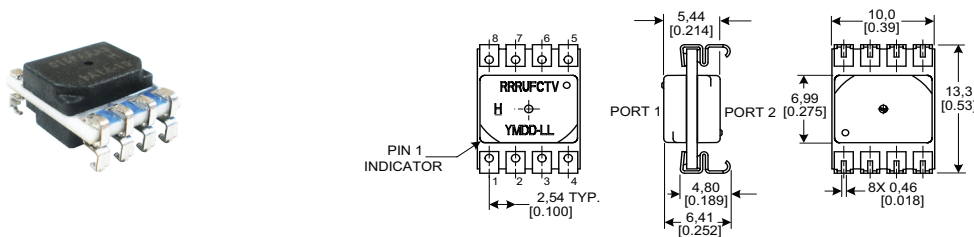


Figure 7. SMT Package Dimensional Drawings (for reference only: mm [in])

SMT NN: No ports

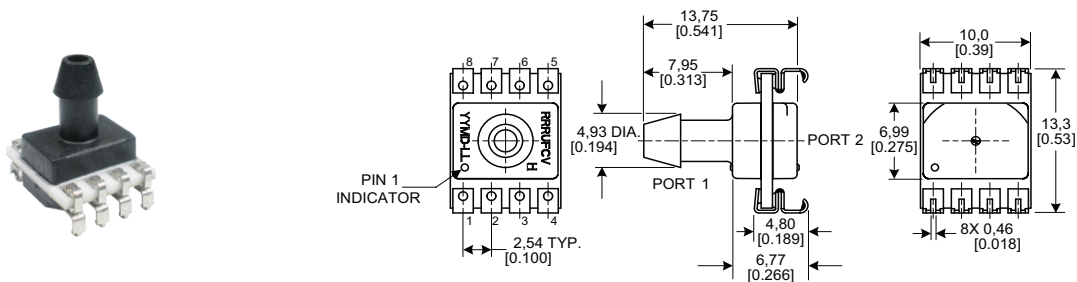


TRU STABILITY® BOARD MOUNT PRESSURE SENSORS **SSC SERIES**

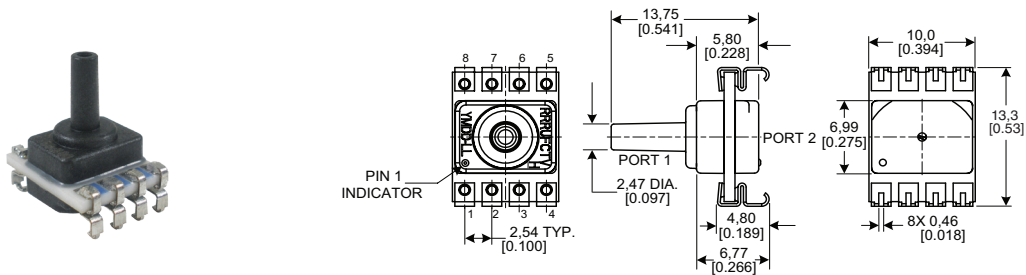
Dimensional Drawings SMT Packages

Figure 7. SMT Package Dimensional Drawings (continued)

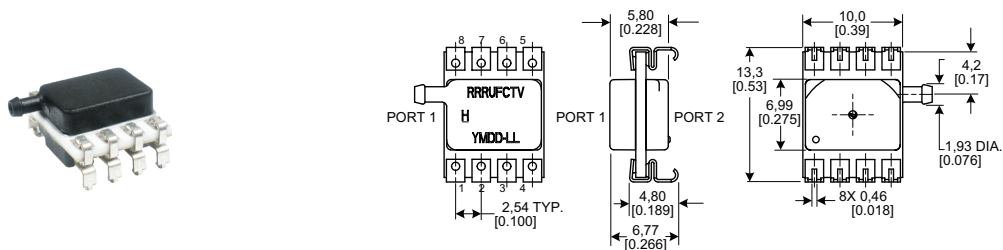
SMT AN: Single axial barbed port



SMT LN: Single axial barbless port



SMT RN: Single radial barbed port

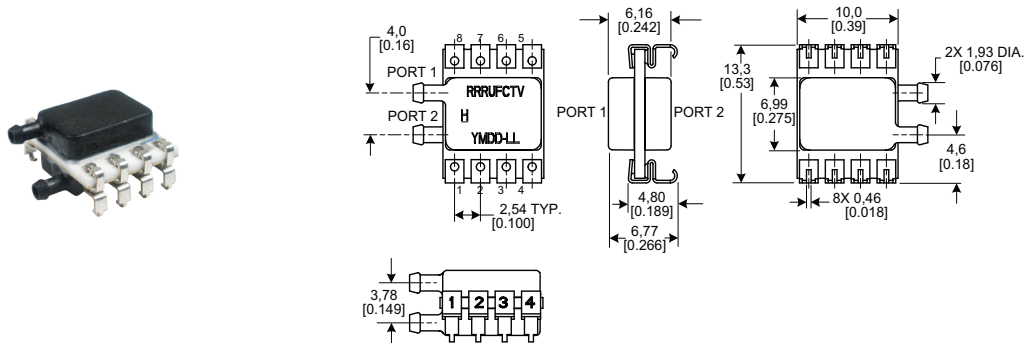


TRU STABILITY® BOARD MOUNT PRESSURE SENSORS **SSC SERIES**

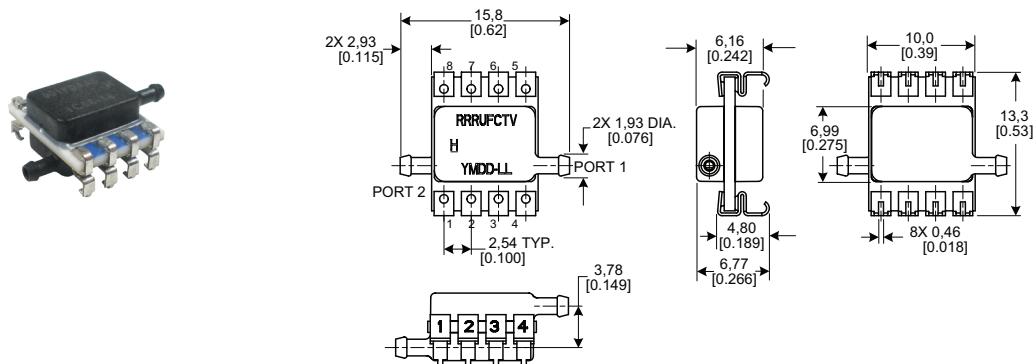
Dimensional Drawings SMT Packages

Figure 7. SMT Package Dimensional Drawings (continued)

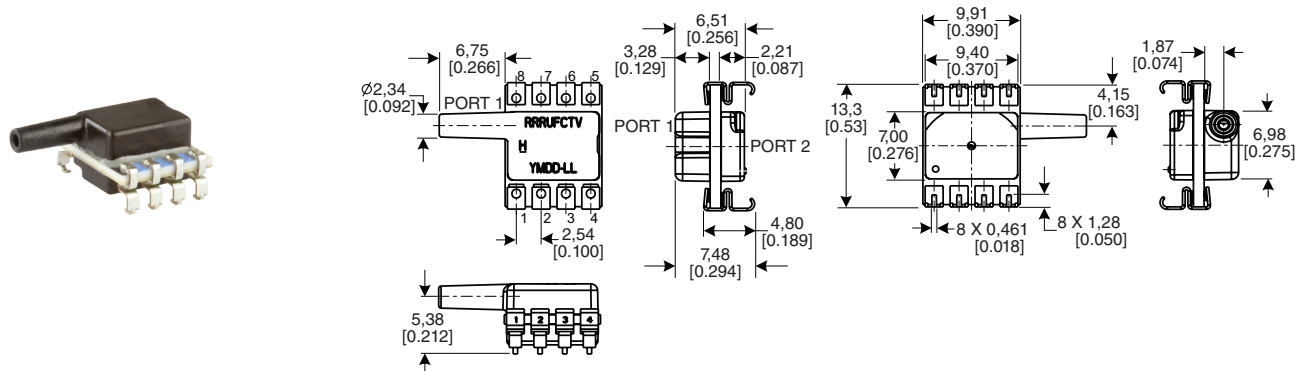
SMT RR: Dual radial barbed ports, same side



SMT DR: Dual radial barbed ports, opposite sides



SMT JN: Single radial barbless port



TRU STABILITY® BOARD MOUNT PRESSURE SENSORS **SSC SERIES**

Dimensional Drawings SMT and SIP Packages

Figure 7. SMT Package Dimensional Drawings (continued)

SMT JJ: Dual radial barbless ports, same side

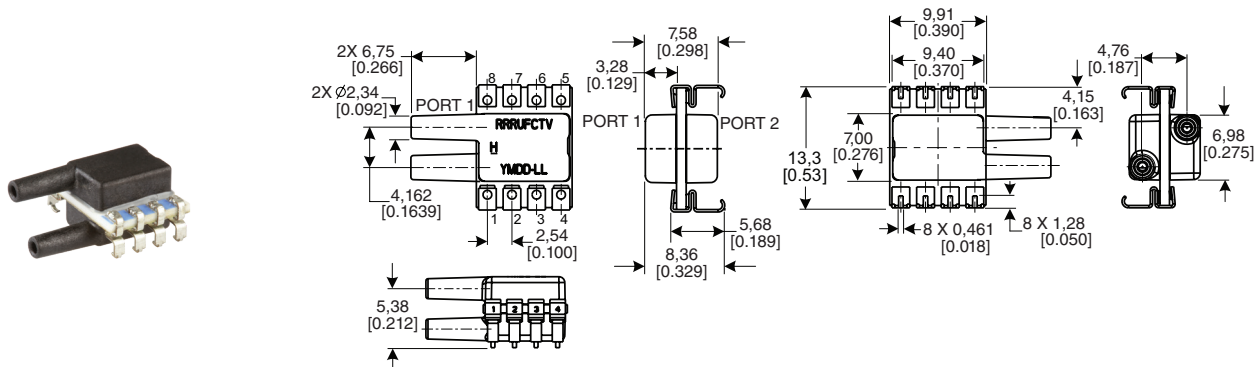
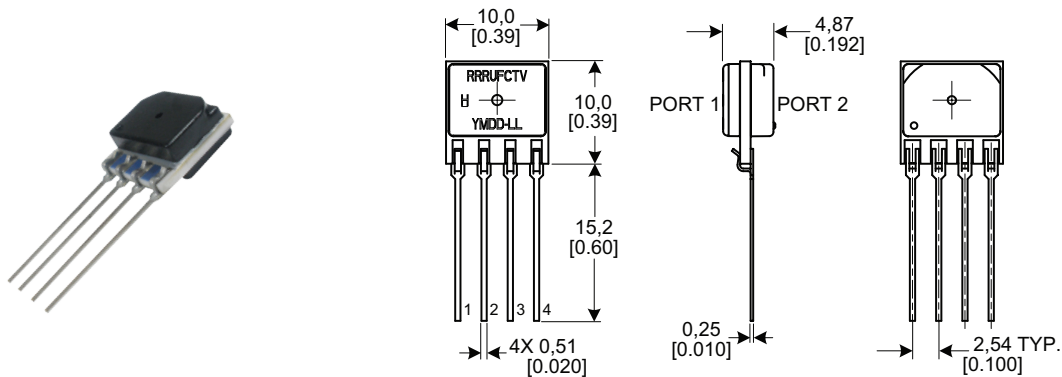
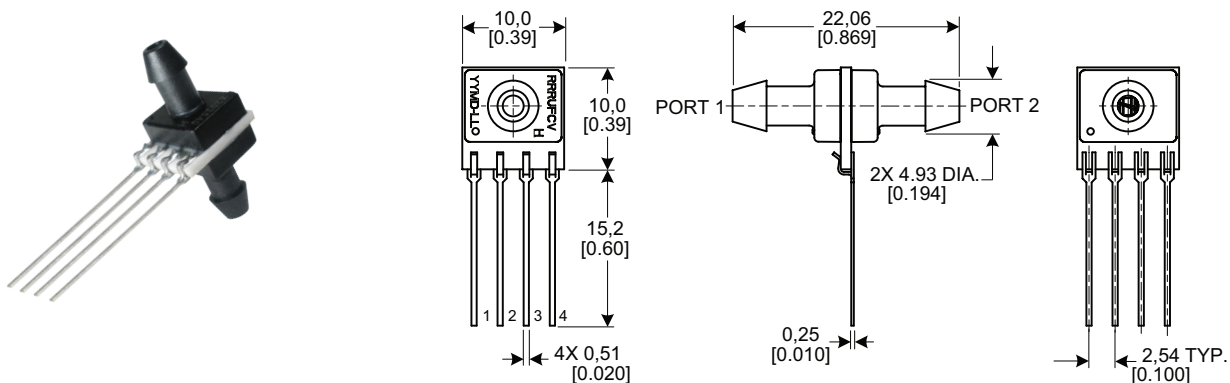


Figure 8. SIP Package Dimensional Drawings (For reference only: mm [in])

SIP NN: No ports



SIP AA: Dual axial barbed ports, opposite sides

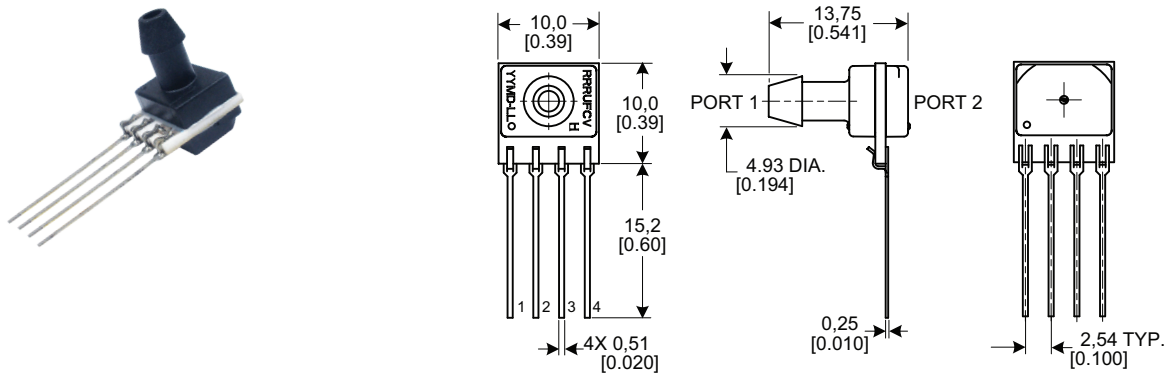


TRU STABILITY® BOARD MOUNT PRESSURE SENSORS **SSC SERIES**

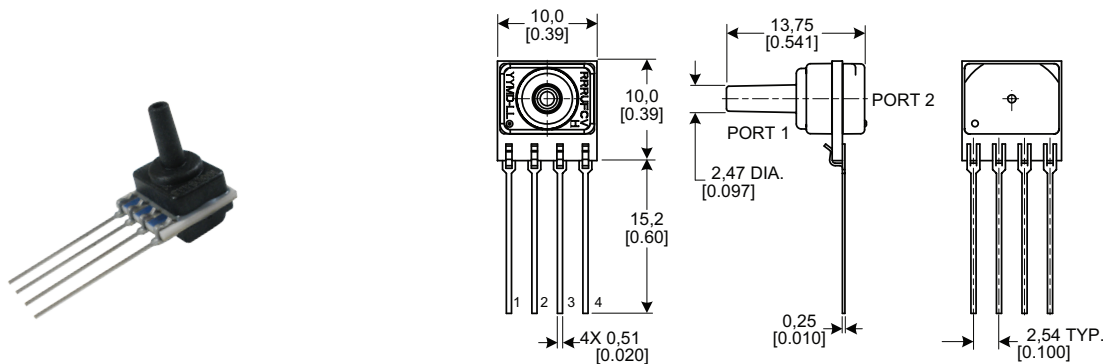
Dimensional Drawings SIP Packages

Figure 8. SIP Package Dimensional Drawings (continued)

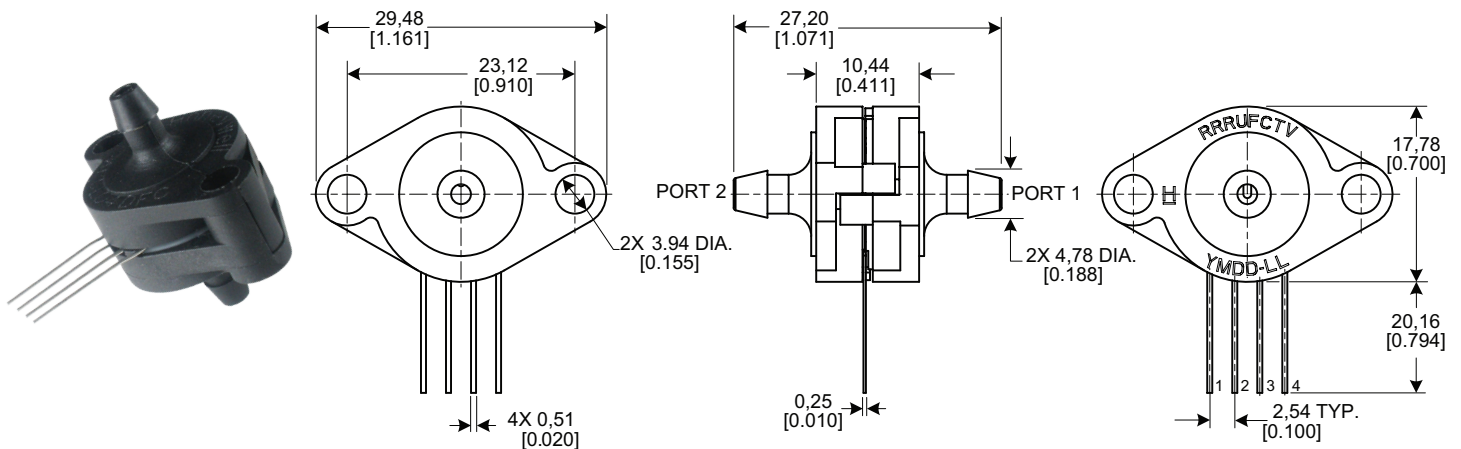
SIP AN: Single axial barbed port



SIP LN: Single axial barbless port



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

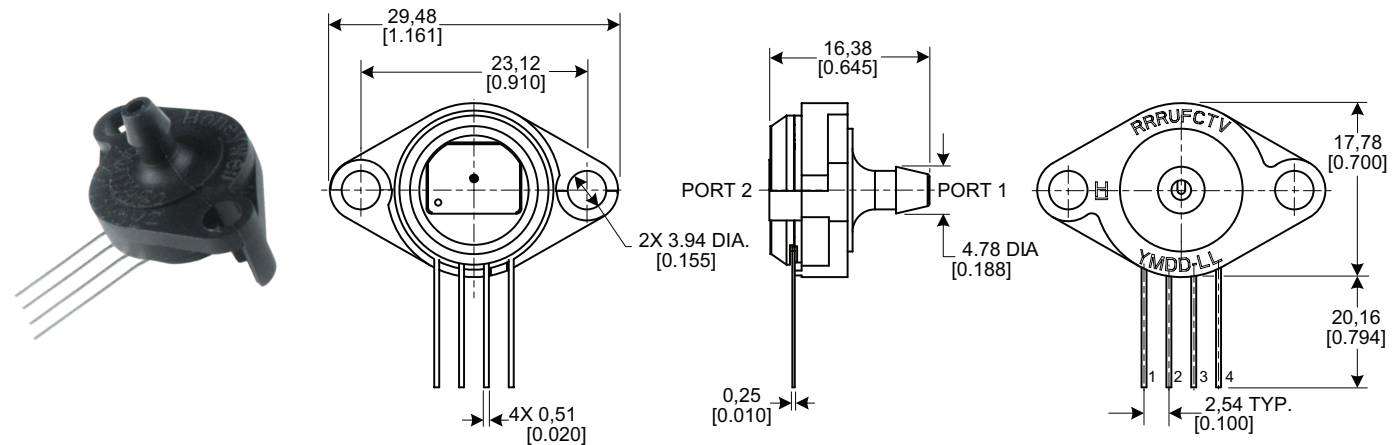


TRU STABILITY® BOARD MOUNT PRESSURE SENSORS **SSC SERIES**

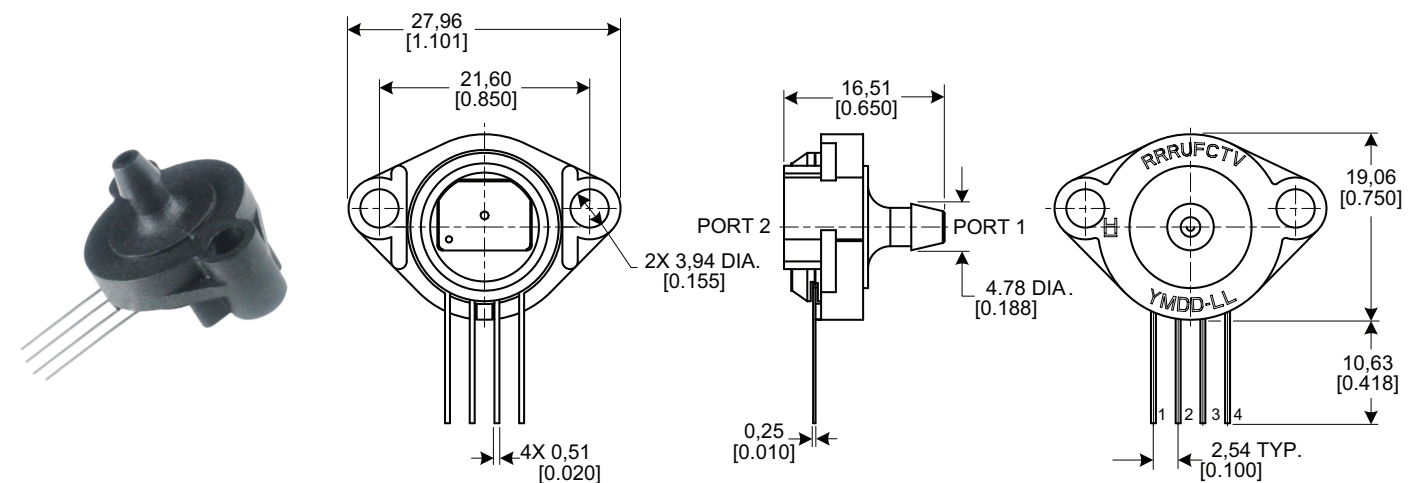
Dimensional Drawings SIP Packages

Figure 8. SIP Package Dimensional Drawings (continued)

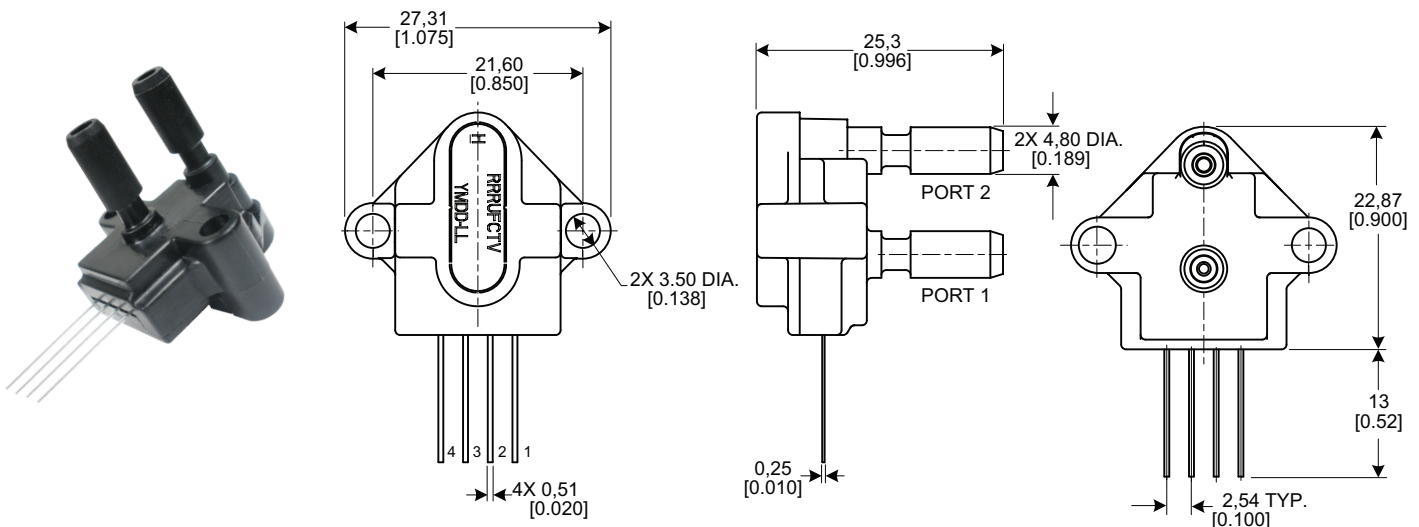
SIP FN: Fastener mount, single axial barbed port



SIP GN: Ribbed fastener mount, single axial barbed port



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

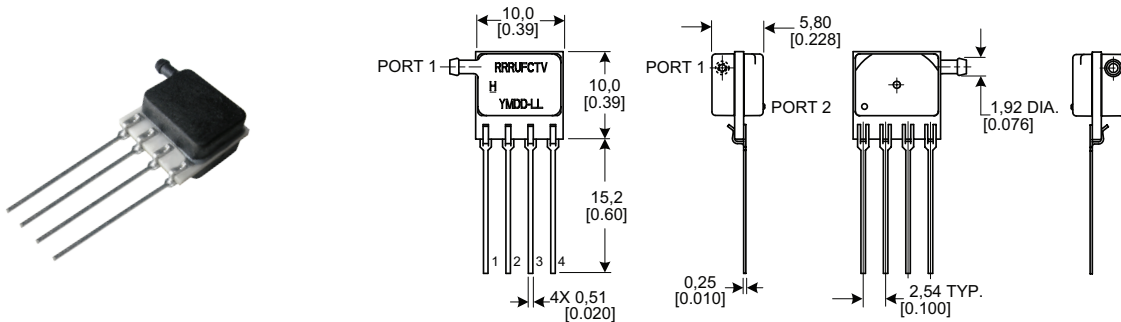


TRU STABILITY® BOARD MOUNT PRESSURE SENSORS **SSC SERIES**

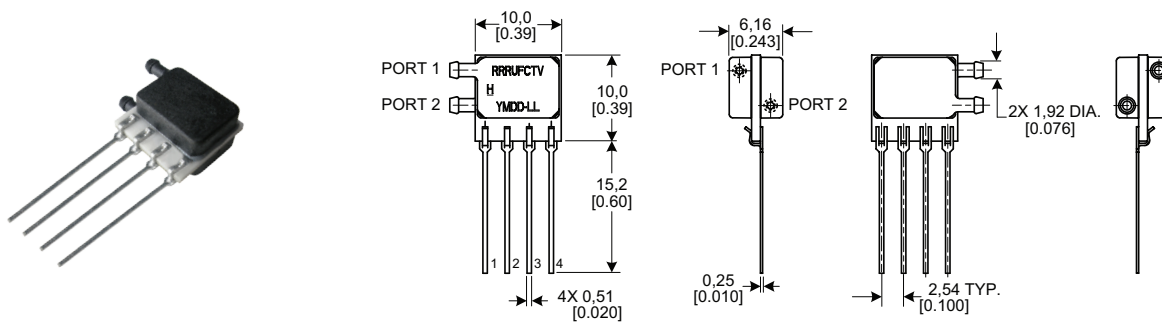
Dimensional Drawings SIP Packages

Figure 8. SIP Package Dimensional Drawings (continued)

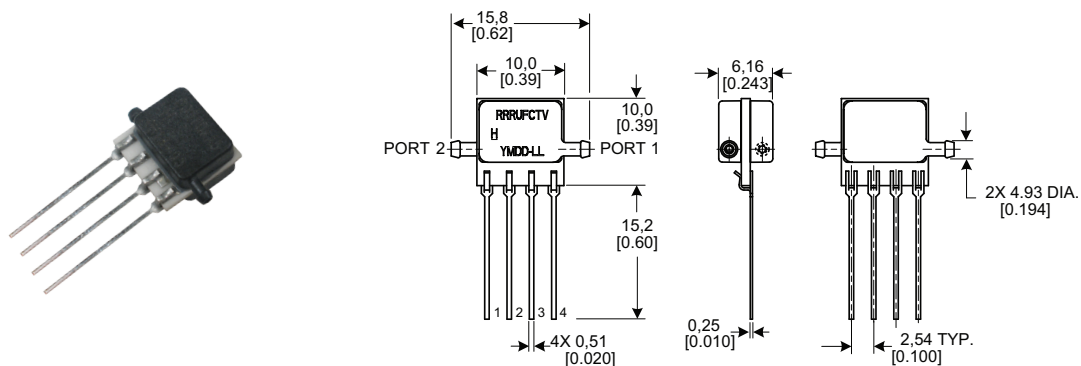
SIP RN: Single radial barbed port



SIP RR: Dual radial barbed ports, same side



SIP DR: Dual radial barbed ports, opposite sides

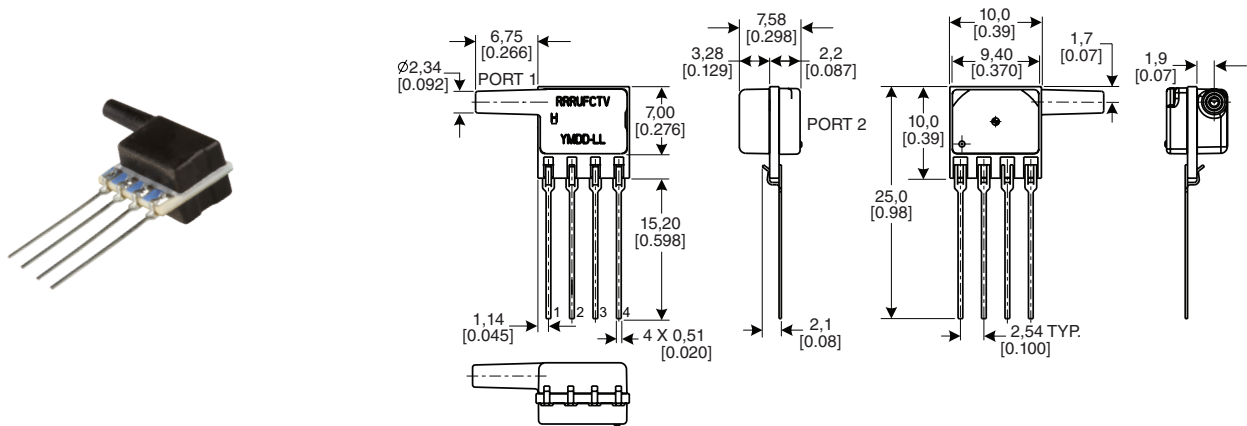


TRU STABILITY® BOARD MOUNT PRESSURE SENSORS **SSC SERIES**

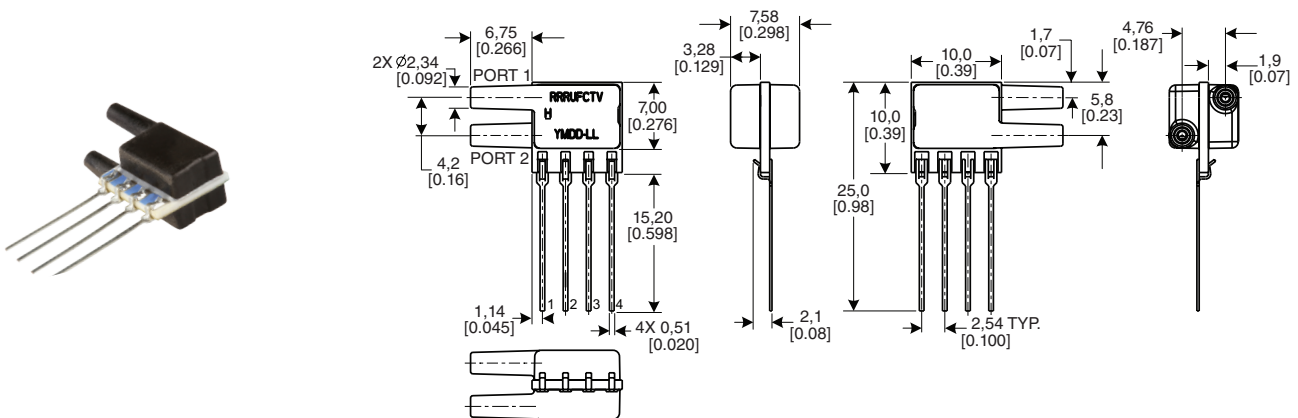
Dimensional Drawings SIP Packages

Figure 8. SIP Package Dimensional Drawings (continued)

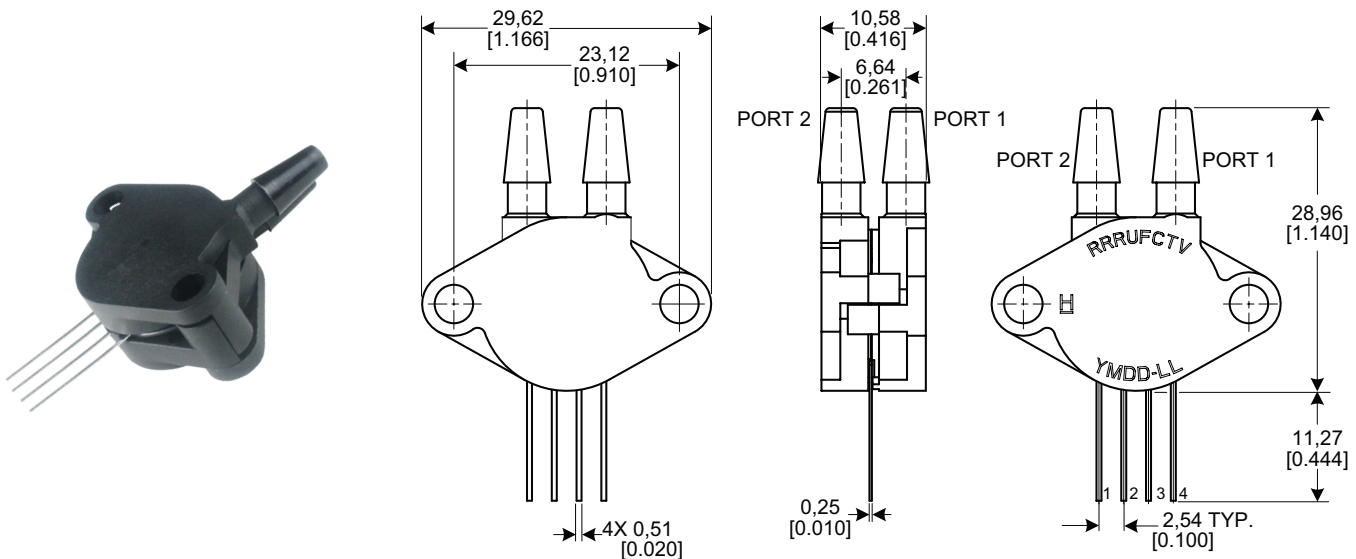
SIP JN: Single radial barbless port



SIP JJ: Dual radial barbless ports, same side



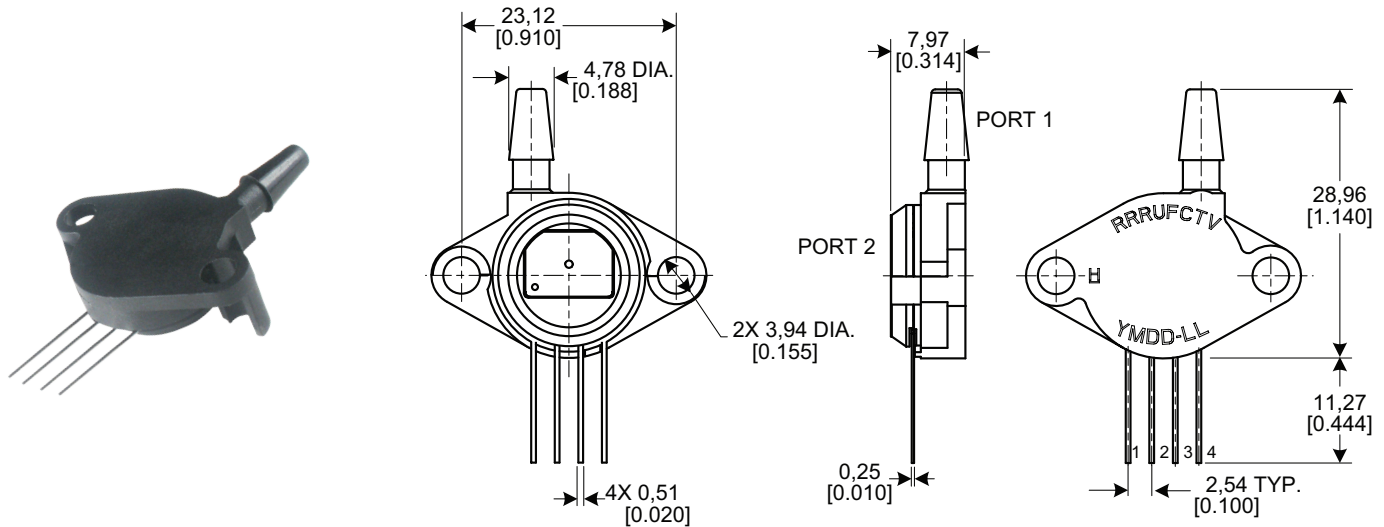
SIP HH: Fastener mount dual radial barbed ports, same side



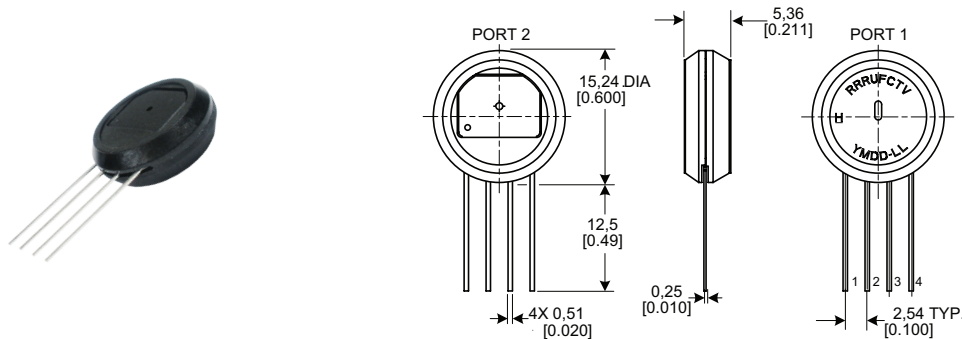
TRU STABILITY® BOARD MOUNT PRESSURE SENSORS **SSC SERIES**

Dimensional Drawings SIP Packages

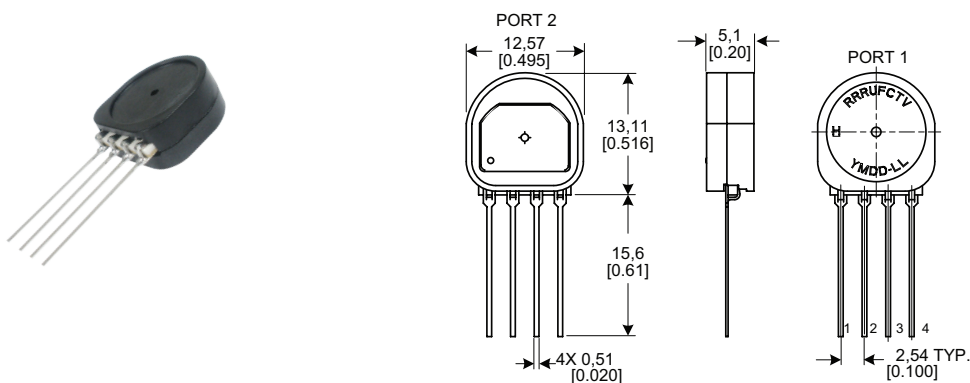
Figure 8. SIP Package Dimensional Drawings (continued)
SIP HN: Fastener mount single radial barbed port



SIP MN: Manifold mount, outer diameter seal



SIP SN: Manifold mount, inner diameter seal



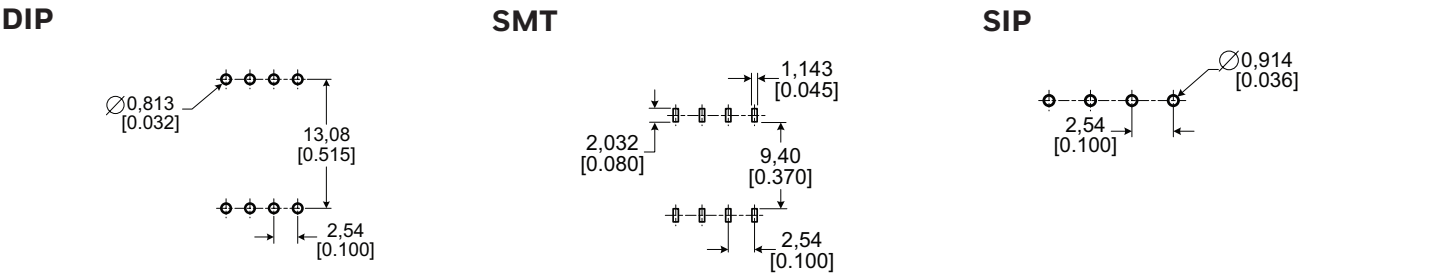
TRU STABILITY® BOARD MOUNT PRESSURE SENSORS
SSC SERIES

Pinout, PCB Pad Layout

TABLE 11. PINOUT FOR DIP AND SMT PACKAGES								
Output Type	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
I ² C	GND	V _{supply}	SDA	SCL	NC	NC	NC	NC
SPI	GND	V _{supply}	MISO	SCLK	SS	NC	NC	NC
Analog	NC	V _{supply}	Vout	GND	NC	NC	NC	NC

TABLE 12. PINOUT FOR SIP PACKAGES				
Output Type	Pin 1	Pin 2	Pin 3	Pin 4
I ² C	GND	V _{supply}	SDA	SCL
Analog	NC	V _{supply}	Vout	GND

Figure 9. Recommended PCB Pad Layouts



TRU STABILITY® BOARD MOUNT PRESSURE SENSORS SSC SERIES

TruStability® Board Mount Pressure Sensors Portfolio Overview

TABLE 13. TRUSTABILITY® BOARD MOUNT PRESSURE SENSORS PORTFOLIO OVERVIEW

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

¹Applies only to pressure ranges ≥16 mbar, 1.6 kPa, 5 inH₂O. For complete Total Error Band information, please see the specification tables in the HSC Series and the SSC Series published datasheets.

WARNING **IMPROPER INSTALLATION**

- Consult with local safety agencies and their requirements when designing a machine-control link, interface and all control elements that affect safety.
- Strictly adhere to all installation instructions.

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

WARNING **MISUSE OF DOCUMENTATION**

- The information presented in this product sheet is for reference only. Do not use this document as a product installation guide.
- Complete installation, operation, and maintenance information is provided in the instructions supplied with each product.

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

WARRANTY/REMEDY

Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship during the applicable warranty period. Honeywell's standard product warranty applies unless agreed to otherwise by Honeywell in writing; please refer to your order acknowledgment or consult your local sales office for specific warranty details. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace, at its option, without charge those items that Honeywell, in its sole discretion, finds defective. **The foregoing is buyer's sole remedy and is in lieu of all other warranties, expressed or implied, including those of merchantability and fitness for a particular purpose. In no event shall Honeywell be liable for consequential, special, or indirect damages.**

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