



**THE DATASHEET OF
SSCSNBN100PGAA5**





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



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 inH₂O.

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 inH₂O 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 ± 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 ± 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-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 (≤ 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; 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.

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 Ratings¹

Characteristic	Min.	Max.	Unit
Supply voltage (V_{supply})	-0.3	6.0	Vdc
Voltage on any pin	-0.3	$V_{\text{supply}} + 3.0$	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) peak reflow temperature (SMT)		4 s max. at 250 °C [482 °F] 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.) liquid media only (See “Options T and V” in Figure 4.)	0% to 95% RH, non-condensing 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 ¹	1 million pressure cycles minimum
Solder reflow	J-STD-020-D.1 Moisture Sensitivity Level 1 (unlimited shelf life when stored at ≤ 30 °C/85 % RH)

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

General Specifications

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	silicon, glass, gold

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.

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_{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 BFSL 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 (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.

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

Transfer Function Limits

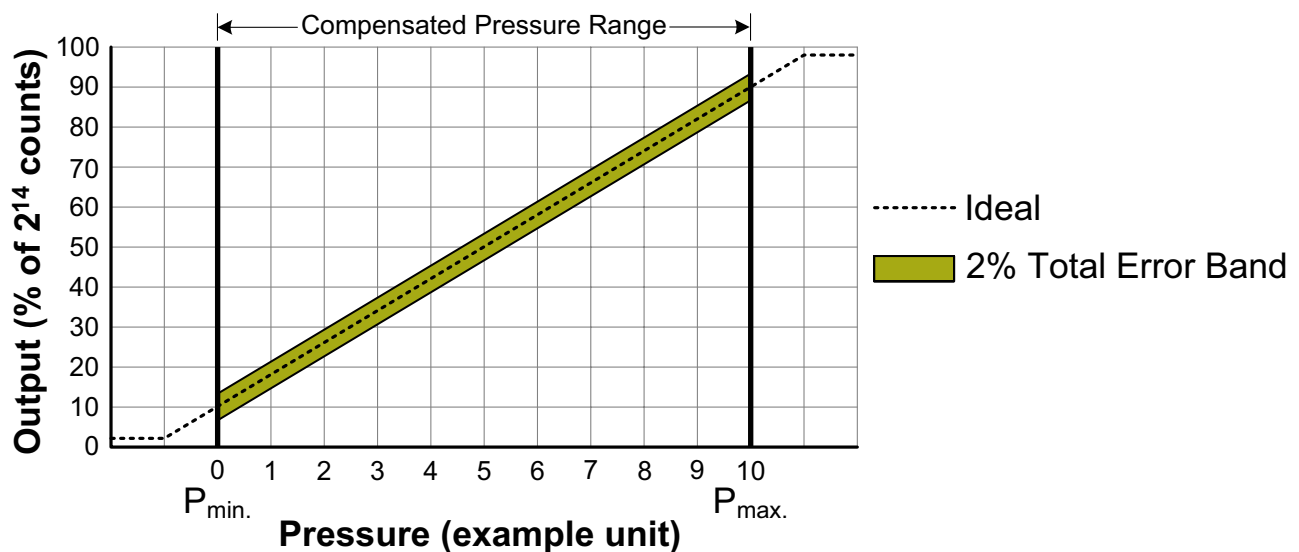
Figure 2. Transfer Function Limits¹

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 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, **SSCDNNN150PGA3** 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.

Product Series
SSC Standard Accuracy, Compensated/Amplified

Package
D DIP (Dual Inline Pin)
M SMT (Surface Mount Technology)
S SIP (Single Inline Pin)

Pressure Port

DIP	SMT	SIP
NN No ports	NN No ports	NN No ports
AN Single axial barbed port	AN Single axial barbed port	AN Single axial barbed port
LN Single axial barbless port	LN Single axial barbless port	LN Single axial barbless port
—	—	AA Dual axial barbed ports, opposite sides
—	—	FF Fastener mount, dual axial barbed ports, opposite sides
—	—	FN Fastener mount, single axial barbed port
—	—	GN Ribbed fastener mount, single axial barbed port
—	—	NB Fastener mount, dual axial ports, same side
RN Single radial barbed port	RN Single radial barbed port	RN Single radial barbed port
RR Dual radial barbed ports, same side	RR Dual radial barbed ports, same side	RR Dual radial barbed ports, same side
DR Dual radial barbed ports, opposite sides	DR Dual radial barbed ports, opposite sides	DR Dual radial barbed ports, opposite sides
JN Single radial barbless port	JN Single radial barbless port	JN Single radial barbless port
JJ Dual radial barbless ports, same side	JJ Dual radial barbless ports, same side	JJ Dual radial barbless ports, same side
—	—	HH Fastener mount, dual radial barbed ports, same side
—	—	HN Fastener mount, single radial barbed port
—	—	MN Manifold mount, outer diameter seal
—	—	SN Manifold mount, inner diameter seal

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

Supply Voltage
3 3.3 Vdc
5 5.0 Vdc

Transfer Function¹
A 10% to 90% of Vsupply (analog), 2¹⁴ counts (digital)
B 5% to 95% of Vsupply (analog), 2¹⁴ counts (digital)
C 5% to 85% of Vsupply (analog), 2¹⁴ counts (digital)
F 4% to 94% of Vsupply (analog), 2¹⁴ counts (digital)

Output Type²
A Analog **4** I²C, Address 0x48
S SPI **5** I²C, Address 0x58
2 I²C, Address 0x28 **6** I²C, Address 0x68
3 I²C, Address 0x38 **7** I²C, Address 0x78

Pressure Range^{3, 4}

±1.6 mbar to ±10 bar <i>Absolute</i>	±160 Pa to ±1 MPa <i>Absolute</i>	±0.5 inH ₂ O to ±150 psi <i>Absolute</i>
001BA 0 bar to 1 bar	100KA 0 kPa to 100 kPa	015PA 0 psi to 15 psi
1.6BA 0 bar to 1.6 bar	160KA 0 kPa to 160 kPa	030PA 0 psi to 30 psi
2.5BA 0 bar to 2.5 bar	250KA 0 kPa to 250 kPa	060PA 0 psi to 60 psi
004BA 0 bar to 4 bar	400KA 0 kPa to 400 kPa	100PA 0 psi to 100 psi
006BA 0 bar to 6 bar	600KA 0 kPa to 600 kPa	150PA 0 psi to 150 psi
010BA 0 bar to 10 bar	001GA 0 kPa to 1 MPa	

<i>Differential</i>	<i>Differential</i>	<i>Differential</i>
1.6MD ±1.6 mbar	160LD ±160 Pa	0.5ND ±0.5 inH ₂ O
2.5MD ±2.5 mbar	250LD ±250 Pa	001ND ±1 inH ₂ O
004MD ±4 mbar	400LD ±400 Pa	002ND ±2 inH ₂ O
006MD ±6 mbar	600LD ±600 Pa	004ND ±4 inH ₂ O
010MD ±10 mbar	001KD ±1 kPa	005ND ±5 inH ₂ O
016MD ±16 mbar	1.6KD ±1.6 kPa	010ND ±10 inH ₂ O
025MD ±25 mbar	2.5KD ±2.5 kPa	020ND ±20 inH ₂ O
040MD ±40 mbar	004KD ±4 kPa	030ND ±30 inH ₂ O
060MD ±60 mbar	006KD ±6 kPa	001PD ±1 psi
100MD ±100 mbar	010KD ±10 kPa	005PD ±5 psi
160MD ±160 mbar	016KD ±16 kPa	015PD ±15 psi
250MD ±250 mbar	025KD ±25 kPa	030PD ±30 psi
400MD ±400 mbar	040KD ±40 kPa	060PD ±60 psi
600MD ±600 mbar	060KD ±60 kPa	
001BD ±1 bar	100KD ±100 kPa	
1.6BD ±1.6 bar	160KD ±160 kPa	
2.5BD ±2.5 bar	250KD ±250 kPa	
004BD ±4 bar	400KD ±400 kPa	

<i>Gage</i>	<i>Gage</i>	<i>Gage</i>
2.5MG 0 mbar to 2.5 mbar	250LG 0 Pa to 250 Pa	001NG 0 inH ₂ O to 1 inH ₂ O
004MG 0 mbar to 4 mbar	400LG 0 Pa to 400 Pa	002NG 0 inH ₂ O to 2 inH ₂ O
006MG 0 mbar to 6 mbar	600LG 0 Pa to 600 Pa	004NG 0 inH ₂ O to 4 inH ₂ O
010MG 0 mbar to 10 mbar	001KG 0 kPa to 1 kPa	005NG 0 inH ₂ O to 5 inH ₂ O
016MG 0 mbar to 16 mbar	1.6KG 0 kPa to 1.6 kPa	010NG 0 inH ₂ O to 10 inH ₂ O
025MG 0 mbar to 25 mbar	2.5KG 0 kPa to 2.5 kPa	020NG 0 inH ₂ O to 20 inH ₂ O
040MG 0 mbar to 40 mbar	004KG 0 kPa to 4 kPa	030NG 0 inH ₂ O to 30 inH ₂ O
060MG 0 mbar to 60 mbar	006KG 0 kPa to 6 kPa	001PG 0 psi to 1 psi
100MG 0 mbar to 100 mbar	010KG 0 kPa to 10 kPa	005PG 0 psi to 5 psi
160MG 0 mbar to 160 mbar	016KG 0 kPa to 16 kPa	015PG 0 psi to 15 psi
250MG 0 mbar to 250 mbar	025KG 0 kPa to 25 kPa	030PG 0 psi to 30 psi
400MG 0 bar to 400 mbar	040KG 0 kPa to 40 kPa	060PG 0 psi to 60 psi
600MG 0 bar to 600 mbar	060KG 0 kPa to 60 kPa	100PG 0 psi to 100 psi
001BG 0 bar to 1 bar	100KG 0 kPa to 100 kPa	150PG 0 psi to 150 psi
1.6BG 0 bar to 1.6 bar	160KG 0 kPa to 160 kPa	
2.5BG 0 bar to 2.5 bar	250KG 0 kPa to 250 kPa	
004BG 0 bar to 4 bar	400KG 0 kPa to 400 kPa	
006BG 0 bar to 6 bar	600KG 0 kPa to 600 kPa	
010BG 0 bar to 10 bar	001GG 0 kPa to 1 MPa	

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.

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%	±2.5%	±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%

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.

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.

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.



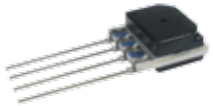
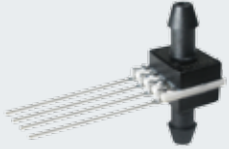





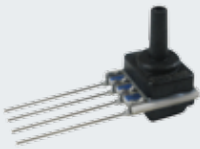







⁴Common mode pressure: The maximum pressure that can be applied simultaneously to both ports of a differential pressure sensor without causing changes in specified performance.

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.

Available Standard Configurations

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

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

Available Standard Configurations

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

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

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 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



Dimensional Drawings

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)



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



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)

Dimensions

SIP HN: Fastener mount single radial barbed port



SIP MN: Manifold mount, outer diameter seal



SIP SN: Manifold mount, inner diameter seal



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 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}	V _{out}	GND	NC	NC	NC	NC

Table 12. Pinouts 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}	V _{out}	GND

Figure 9. Recommended PCB Pad Layouts



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} (analog), 2 ¹⁴ counts (digital) 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: down to ±1% Full Scale Span max. down to ±2% Full Scale Span max.	✓ —	— ✓	— —	— —

ADDITIONAL INFORMATION

The following associated literature is available at sensing.honeywell.com:

- Product line guide
- Product range guide
- Product nomenclature tree
- Installation instructions
- Application information
- Technical notes
 - I²C Communications with Honeywell Digital Output Pressure Sensors
 - SPI Communications with Honeywell Digital Output Pressure Sensors

⚠ WARNING

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.

⚠ 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.

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