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Honeywell

TruStability® Board Mount Pressure Sensors

TSC Series, Compensated/Unamplified

±60 mbar to ±10 bar | ±6 kPa to ±1 MPa | ±1 psi to ±150 psi
Millivolt Analog Output

NSC Series, Uncompensated/Unamplified

±2.5 mbar to ±10 bar | ±250 Pa to ±1 MPa | ±1 inH_2O to ±150 psi
Millivolt Analog Output

Datasheet

TruStability® Board Mount Pressure Sensors

Honeywell's TruStability® TSC Series and NSC Series are piezoresistive silicon pressure sensors offering a ratiometric analog output for reading pressure over the specified full scale pressure span and temperature range.

TSC Series:

- Temperature compensated and unamplified.
- Compensation makes it easier to integrate the sensor into a system by eliminating the need to calibrate the system over temperature and also offers reduced part-to-part variation.
- Compensated temperature range is 0 °C to 85 °C [-32 °F to 185 °F].
- Operating temperature range is -40 °C to 85 °C [-40 °F to 185 °F].
- Measures differential or gage pressures

NSC Series:

- Uncompensated and unamplified.
- Allows customers the flexibility of performing their own calibration while still benefiting from the industry-leading stability, accuracy, and repeatability that the Honeywell TruStability® Pressure Sensors provide.
- Operates as specified from -40 °C to 85 °C [-40 °F to 185 °F].
- Measures absolute, differential or gage pressures.

The absolute versions have an internal vacuum reference and an output value proportional to absolute pressure. Differential versions allow measurement of pressure between two pressure ports. Gage versions are referenced to atmospheric pressure and provide an output proportional to pressure variations from atmosphere.

The TSC Series and NSC Series sensors are intended for use with non-corrosive, non-ionic gases, such as air. Port 1 can also be used for non-corrosive, non-ionic liquids on sensors rated above 60 mbar | 6 kPa | 1 psi.

The TSC and NSC Series offer numerous package styles and mounting options, making it easier for device manufacturers to integrate the product into their applications. These sensors offer infinite resolution on the pressure signal. Frequency response is also typically limited only by the end user's system. All products are designed and manufactured according to ISO 9001.

Table of Contents

What makes our sensors better?

- Stability and reliability you can count on
- Industry-leading accuracy down to ±0.15 %FSS BFSL
- Port and housing options simplify integration
- Wide pressure range from ±2.5 mbar to ±10 bar | ±250 Pa to ±1 MPa | ±1 inH_2O to ±150 psi
- Small package size
- Low power consumption

STABILITY • ACCURACY • FLEXIBILITY • SMALL SIZE

Features and Benefits

INDUSTRY-LEADING LONG-TERM STABILITY

Even after long-term use and thermal extremes, these sensors perform substantially better relative to stability than any other pressure sensor available in the industry today:

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

INDUSTRY-LEADING ACCURACY

Extremely tight accuracy down to ±0.15 %FSS BFSL:

- Reduces software needed to correct system inaccuracies, minimizing system design time.
- Supports system accuracy and warranty requirements.

Minimizes system calibration and design needs; supports system uptime.

INDUSTRY-LEADING FLEXIBILITY

- Modular, flexible design with numerous package styles, pressure ports, and options simplifies integration into the device manufacturer's application.
- Single side wet media allows the end customer to use one port of the sensor with condensing humidity or directly with non-corrosive liquid media.

Simplifies product integration.

INSENSITIVE TO MOUNTING ORIENTATION

Allows flexibility of use within the application.

SMALL SIZE

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

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

REPEATABILITY

Provides **excellent repeatability, high accuracy and reliability** under many demanding conditions.

SUPPORTS LEAN MANUFACTURING

- J-STD-020-D MSL 1 unlimited shelf life after packaging is opened.
- System can be calibrated within one hour after reflow solder.
- Compatible with modern lead-free and no-clean solder processes.

Features and Benefits

EXTREMELY LOW POWER CONSUMPTION

- Operating supply voltage as low as 1.5 Vdc.
- Reduces power consumption, provides extended battery life, and promotes energy efficiency.

ABSOLUTE, DIFFERENTIAL AND GAGE TYPES

- Provides flexibility of use within the application.
- Absolute type on NSC Series only.

PRESSURE RANGES FROM ±2.5 MBAR TO ±10 BAR | ±250 PA TO ±1 MPA | ±1 INH_2O TO ±150 PSI

Optimizes the customer's system performance by maximizing pressure resolution with more available pressure ranges.

ROHS AND ISO9001 COMPLIANCE

Potential Applications

MEDICAL

- NEBULIZERS
- SPIROMETERS
- PATIENT MONITORING EQUIPMENT
- THERAPEUTIC HOSPITAL BEDS
- HOSPITAL GAS SUPPLY
- OXYGEN CONCENTRATORS
- BLOOD ANALYSIS
- GAS CHROMATOGRAPHY
- ANALYTICAL INSTRUMENTS

INDUSTRIAL

- VALVES
- PUMPS
- ACTUATORS
- HVAC TRANSMITTERS
- AUTOMATED PNEUMATIC ASSEMBLY EQUIPMENT
- PNEUMATIC OPERATOR CONTROL SYSTEMS
- INDUSTRIAL GAS SUPPLY
- BAROMETRY
- GAS CHROMATOGRAPHY
- ANALYTICAL INSTRUMENT SAMPLING SYSTEMS

TSC Series and NSC Series General Specifications

Table 1. Absolute Maximum Ratings[1]

Characteristic	Min.	Max.	Unit
Supply voltage (V_{supply})[2]: pressure ranges ≥60 mbar | 6 kPa | 1 psi pressure ranges ≤40 mbar | 4 kPa | 20 inH_2O	 -12.0 0	 12.0 7	Vdc
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]		

[1]Absolute maximum ratings are the extreme limits the device will withstand without damage.

[2]Incorrect application of supply voltage or ground to the wrong pin may cause electrical failure.

Table 2. Operating Specifications

Characteristic	Min.	Typ.	Max.	Unit
Supply voltage (V_{supply}):[1, 2] pressure ranges ≥60 mbar | 6 kPa | 1 psi pressure ranges ≤40 mbar | 4 kPa | 20 H_2O	 1.5 2.7	 5.0 5.0	 12.0 6.5	Vdc
Supply current (at 5.0 Vdc supply) TSC Series NSC Series	 — —	 0.6 1.5	 1 2.2	mA
Operating temperature range[3]	-40 [-40]	—	85 [185]	°C [°F]
TSC Series compensated temperature range[4]	0 [32]	—	85 [185]	°C [°F]
Startup time	—	—	5	ms
TSC Series output resistance	—	2.5	—	kOhm

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

[2]Incorrect application of supply voltage or ground to the wrong pin may cause electrical failure.

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

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

Table 3. Environmental Specifications

Characteristic	Parameter
Humidity	0% to 95% RH, non-condensing
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 MSL1 (unlimited shelf life when stored at less than 30 °C and 85 %RH)

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

TSC Series and NSC Series General Specifications

Table 4. Wetted Materials[1]

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, RTV	epoxy, RTV
Electronic components	silicon	silicon, glass, gold

[1]Contact Honeywell Customer Service for detailed material information.

CAUTION
PRODUCT DAMAGE

- 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 5. Sensor Pressure Types

Pressure Type	Description
Absolute	Output is proportional to the difference between applied pressure and a built-in reference to vacuum.
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.

TSC Series Nomenclature and Order Guide

Figure 1. TSC Series Nomenclature and Order Guide[1]

For example, **TSCDNNN150PGUCV** defines a TSC Series TruStability® Pressure Sensor, DIP package, NN pressure port, no special options,150 psi gage pressure range, unamplified, compensated, constant supply voltage.

T S C D N N N 1 5 0 P G U C V

Series

TSC	Compensated/Unamplified

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
–	–	**AA** Dual axial barbed ports, opposite sides
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
–	–	**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

N	No special options

Pressure Range

60 mbar to 10 bar	6 kPa to 1 MPa	1 psi to 150 psi
Differential	*Differential*	*Differential*
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	**100PD** ±100 psi
001BD ±1 bar	**100KD** ±100 kPa	**150PD** ±150 psi
1.6BD ±1.6 bar	**160KD** ±160 kPa	
2.5BD ±2.5 bar	**250KD** ±250 kPa	
004BD ±4 bar	**400KD** ±400 kPa	
006BD ±6 bar	**600KD** ±600 kPa	
010BD ±10 bar	**001GD** ±1 MPa	
Gage	*Gage*	*Gage*
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	

Compensation

C	Compensated

Output Type

U	Unamplified

Supply Voltage

V	Constant

[1]See Table 5 for an explanation of sensor pressure types.

NSC Series Nomenclature and Order Guide

Figure 2. NSC Series Nomenclature and Order Guide[1]

For example, **NSCDNNN150PGUNV** defines an NSC Series TruStability® Pressure Sensor, DIP package, NN pressure port, no special options,150 psi gage pressure range, unamplified, uncompensated, constant supply voltage.

N S C D N N N 1 5 0 P G U N V

Series

NSC	Uncompensated/Unamplified

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
—	—	**AA** Dual axial barbed ports, opposite sides
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
—	—	**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

N	No special options

Supply Voltage

V	Constant

Compensation

N	Uncompensated

Output Type

U	Unamplified

Pressure Range

2.5 mbar to 10 bar	400 Pa to 1 MPa	1 in H_2O to 150 psi
Absolute	*Absolute*	*Absolute*
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	
Differential	*Differential*	*Differential*
2.5MD ±2.5 mbar	**250LD** ±250 Pa	**001ND** ±1 inH_2O
004MD ±4 mbar	**400LD** ±400 Pa	**002ND** ±2 inH_2O
006MD ±6 mbar	**600LD** ±600 Pa	**004ND** ±4 inH_2O
010MD ±10 mbar	**001KD** ±1 kPa	**005ND** ±5 inH_2O
016MD ±16 mbar	**1.6KD** ±1.6 kPa	**010ND** ±10 inH_2O
025MD ±25 mbar	**2.5KD** ±2.5 kPa	**020ND** ±20 inH_2O
040MD ±40 mbar	**004KD** ±4 kPa	**030ND** ±30 inH_2O
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	**100PD** ±100 psi
001BD ±1 bar	**100KD** ±100 kPa	**150PD** ±150 psi
1.6BD ±1.6 bar	**160KD** ±160 kPa	
2.5BD ±2.5 bar	**250KD** ±250 kPa	
004BD ±4 bar	**400KD** ±400 kPa	
006BD ±6 bar	**600KD** ±600 kPa	
010BD ±10 bar	**001GD** ±1 MPa	
Gage	*Gage*	*Gage*
004MG 0 mbar to 4 mbar	**400LG** 0 Pa to 400 Pa	**002NG** 0 inH_2O to 2 inH_2O
006MG 0 mbar to 6 mbar	**600LG** 0 Pa to 600 Pa	**004NG** 0 inH_2O to 4 inH_2O
010MG 0 mbar to 10 mbar	**001KG** 0 kPa to 1 kPa	**005NG** 0 inH_2O to 5 inH_2O
016MG 0 mbar to 16 mbar	**1.6KG** 0 kPa to 1.6 kPa	**010NG** 0 inH_2O to 10 inH_2O
025MG 0 mbar to 25 mbar	**004KG** 0 kPa to 4 kPa	**020NG** 0 inH_2O to 20 inH_2O
040MG 0 mbar to 40 mbar	**006KG** 0 kPa to 6 kPa	**030NG** 0 inH_2O to 30 inH_2O
060MG 0 mbar to 60 mbar	**010KG** 0 kPa to 10 kPa	**001PG** 0 psi to 1 psi
100MG 0 mbar to 100 mbar	**016KG** 0 kPa to 16 kPa	**005PG** 0 psi to 5 psi
160MG 0 mbar to 160 mbar	**025KG** 0 kPa to 25 kPa	**015PG** 0 psi to 15 psi
250MG 0 mbar to 250 mbar	**040KG** 0 kPa to 40 kPa	**030PG** 0 psi to 30 psi
400MG 0 bar to 400 mbar	**060KG** 0 kPa to 60 kPa	**060PG** 0 psi to 60 psi
600MG 0 bar to 600 mbar	**100KG** 0 kPa to 100 kPa	**100PG** 0 psi to 100 psi
001BG 0 bar to 1 bar	**160KG** 0 kPa to 160 kPa	**150PG** 0 psi to 150 psi
1.6BG 0 bar to 1.6 bar	**250KG** 0 kPa to 250 kPa	
2.5BG 0 bar to 2.5 bar	**400KG** 0 kPa to 400 kPa	
004BG 0 bar to 4 bar	**600KG** 0 kPa to 600 kPa	
006BG 0 bar to 6 bar	**001GG** 0 kPa to 1 MPa	
010BG 0 bar to 10 bar		

[1]See Table 5 for an explanation of sensor pressure types.

TSC Series Specifications
±60 mbar to ±10 bar

Table 6. TSC Series Pressure Range Specifications for ±60 mbar to ±10 bar

Pressure Range Order Code (see Figure 1)	Pressure Range		Unit	Over Pressure	Burst Pressure	Common Mode Pressure	Pressure Accuracy (%FSS)	Offset[1] (mV/V)	Full Scale Span (mV/V)			Thermal Effect on Offset[2] (%FSS)		Thermal Effect on Span[3] (%FSS)		Long-Term Stability 1000 hr, 25 °C (%FSS)	Thermal Hysteresis[4] (%FSS)
	Pmin.	Pmax.							Min.	Nom.	Max.	10 °C to 50 °C	0 °C to 85 °C	10 °C to 50 °C	0 °C to 85 °C		
Differential																	
060MD	-60	60	mbar	872	1370	10,000	±0.20	±0.075	2.46	2.60	2.80	±0.60	±1.15	±1.00	±2.00	±0.15	±0.15
100MD	-100	100	mbar	872	1370	10,000	±0.20	±0.075	4.12	4.40	4.66	±0.35	±0.70	±1.00	±2.00	±0.10	±0.10
160MD	-160	160	mbar	2000	4000	10,000	±0.15	±0.12	4.36	4.60	4.92	±0.80	±1.65	±0.75	±2.00	±0.10	±0.10
250MD	-250	250	mbar	2000	4000	10,000	±0.15	±0.12	6.82	7.30	7.70	±0.55	±1.05	±0.75	±2.00	±0.10	±0.10
400MD	-400	400	mbar	2000	4000	10,000	±0.15	±0.12	10.90	11.60	12.30	±0.35	±0.65	±0.75	±2.00	±0.10	±0.10
600MD	-600	600	mbar	4000	8000	10,000	±0.15	±0.075	5.88	16.10	6.36	±0.40	±0.85	±0.50	±1.25	±0.10	±0.10
001BD	-1	1	bar	4	8	10	±0.15	±0.075	9.80	10.20	10.60	±0.25	±0.50	±0.50	±1.25	±0.10	±0.10
1.6BD	-1.6	1.6	bar	4	8	10	±0.15	±0.075	15.68	16.30	16.96	±0.15	±0.30	±0.50	±1.25	±0.10	±0.10
2.5BD	-2.5	2.5	bar	8	17	10	±0.15	±0.075	12.20	12.70	13.18	±0.20	±0.40	±0.50	±1.50	±0.10	±0.10
004BD	-4	4	bar	10	17	15	±0.15	±0.075	11.14	11.60	12.08	±0.25	±0.50	±0.50	±1.25	±0.10	±0.10
006BD	-6	6	bar	17	17	15	±0.15	±0.075	10.16	10.60	11.08	±0.35	±0.50	±0.50	±1.00	±0.10	±0.10
010BD	-10	10	bar	17	17	15	±0.15	±0.075	16.94	17.70	18.44	±0.20	±0.3	±0.5	±1.00	±0.10	±0.10
Gage																	
060MG	0	60	mbar	872	1370	10,000	±0.20	±0.075	1.23	1.30	1.40	±1.15	±2.35	±1.00	±2.00	±0.30	±0.30
100MG	0	100	mbar	872	1370	10,000	±0.20	±0.075	2.06	2.20	2.33	±0.70	±1.40	±1.00	±2.00	±0.20	±0.20
160MG	0	160	mbar	2000	4000	10,000	±0.15	±0.12	2.18	2.30	2.46	±1.65	±3.30	±0.75	±2.00	±0.20	±0.20
250MG	0	250	mbar	2000	4000	10,000	±0.15	±0.12	3.41	3.65	3.85	±1.05	±2.10	±0.75	±2.00	±0.15	±0.15
400MG	0	400	mbar	2000	4000	10,000	±0.15	±0.12	5.45	5.80	6.15	±0.65	±1.30	±0.75	±2.00	±0.10	±0.10
600MG	0	600	mbar	4000	8000	10,000	±0.15	±0.075	2.94	3.05	3.18	±0.85	±1.65	±0.50	±1.25	±0.15	±0.15
001BG	0	1	bar	4	8	10	±0.15	±0.075	4.90	5.10	5.30	±0.50	±1.00	±0.50	±1.25	±0.10	±0.10
1.6BG	0	1.6	bar	4	8	10	±0.15	±0.075	7.84	8.15	8.48	±0.30	±0.65	±0.50	±1.25	±0.10	±0.10
2.5BG	0	2.5	bar	8	17	10	±0.15	±0.075	6.10	6.35	6.59	±0.40	±0.80	±0.50	±1.50	±0.10	±0.10
004BG	0	4	bar	10	17	15	±0.15	±0.075	5.57	5.80	6.04	±0.50	±1.00	±0.50	±1.25	±0.10	±0.10
006BG	0	6	bar	17	17	15	±0.15	±0.075	5.08	5.30	5.54	±0.65	±1.00	±0.50	±1.00	±0.15	±0.15
010BG	0	10	bar	17	17	15	±0.15	±0.075	8.47	8.85	9.22	±0.40	±0.60	±0.50	±1.00	±0.10	±0.10

[1]Offset: The output signal obtained when the reference pressure is applied to all available pressure ports. Also known as “null” or “zero”.

[2]Thermal effect on offset: The deviation in offset due to changes in temperature over the compensated temperature range, relative to offset measured at 25 °C.

[3]Thermal effect on span: The deviation in full scale span due to changes in temperature over the compensated temperature range, relative to full scale span measured at 25 °C.

[4]Thermal hysteresis: The maximum difference between output readings when the same temperature is reached consecutively, under the same operating conditions, with temperature approaching from opposite directions within the operating temperature range. Validated over the full operating temperature and pressure ranges using a ~5 °C/minute ramp and 30 minute dwell. Application performance may be affected by the thermal mass of the end user system.

TSC Series Specifications
±6 kPa to ±1 MPa

Table 7. TSC Series Pressure Range Specifications for ±6 kPa to ±1 MPa

Pressure Range Order Code (see Figure 1)	Pressure Range		Unit	Over Pressure	Burst Pressure	Common Mode Pressure	Pressure Accuracy (%FSS)	Offset[1] (mV/V)	Full Scale Span (mV/V)			Thermal Effect on Offset[2] (%FSS)		Thermal Effect on Span[3] (%FSS)		Long-Term Stability 1000 hr, 25 °C (%FSS)	Thermal Hysteresis[4] (%FSS)
	Pmin.	Pmax.							Min.	Nom.	Max.	10 °C to 50 °C	0 °C to 85 °C	10 °C to 50 °C	0 °C to 85 °C		
Differential																	
006KD	-6	6	kPa	87	137	1000	±0.20	±0.075	2.46	2.60	2.80	±0.60	±1.15	±1.00	±2.00	±0.15	±0.15
010KD	-10	10	kPa	87	137	1000	±0.20	±0.075	4.12	4.40	4.66	±0.35	±0.70	±1.00	±2.00	±0.10	±0.10
016KD	-16	16	kPa	200	400	1000	±0.15	±0.12	4.36	4.60	4.92	±0.80	±1.65	±0.75	±2.00	±0.10	±0.10
025KD	-25	25	kPa	200	400	1000	±0.15	±0.12	6.82	7.30	7.70	±0.55	±1.05	±0.75	±2.00	±0.10	±0.10
040KD	-40	40	kPa	200	400	1000	±0.15	±0.12	10.90	11.60	12.30	±0.35	±0.65	±0.75	±2.00	±0.10	±0.10
060KD	-60	60	kPa	400	800	1000	±0.15	±0.075	5.88	16.10	6.36	±0.40	±0.85	±0.50	±1.25	±0.10	±0.10
100KD	-100	100	kPa	400	800	1000	±0.15	±0.075	9.80	10.20	10.60	±0.25	±0.50	±0.50	±1.25	±0.10	±0.10
160KD	-160	160	kPa	400	800	1000	±0.15	±0.075	15.68	16.30	16.96	±0.15	±0.30	±0.50	±1.25	±0.10	±0.10
250KD	-250	250	kPa	800	1700	1000	±0.15	±0.075	12.20	12.70	13.18	±0.20	±0.40	±0.50	±1.50	±0.10	±0.10
400KD	-400	400	kPa	1000	1700	1600	±0.15	±0.075	11.14	11.60	12.08	±0.25	±0.50	±0.50	±1.25	±0.10	±0.10
600KD	-600	600	kPa	1700	1700	1700	±0.15	±0.075	10.16	10.60	11.08	±0.35	±0.50	±0.50	±1.00	±0.10	±0.10
001GD	-1	1	MPa	1.70	1.70	1.7	±0.15	±0.075	16.94	17.70	18.44	±0.20	±0.30	±0.50	±1.00	±0.10	±0.10
Gage																	
006KG	0	6	kPa	87	137	1000	±0.20	±0.075	1.23	1.30	1.40	±1.15	±2.35	±1.00	±2.00	±0.30	±0.30
010KG	0	10	kPa	87	137	1000	±0.20	±0.075	2.06	2.20	2.33	±0.70	±1.40	±1.00	±2.00	±0.20	±0.20
016KG	0	16	kPa	200	400	1000	±0.15	±0.12	2.18	2.30	2.46	±1.65	±3.30	±0.75	±2.00	±0.20	±0.20
025KG	0	25	kPa	200	400	1000	±0.15	±0.12	3.41	3.65	3.85	±1.05	±2.10	±0.75	±2.00	±0.15	±0.15
040KG	0	40	kPa	200	400	1000	±0.15	±0.12	5.45	5.80	6.15	±0.65	±1.30	±0.75	±2.00	±0.10	±0.10
060KG	0	60	kPa	400	800	1000	±0.15	±0.075	2.94	3.05	3.18	±0.85	±1.65	±0.50	±1.25	±0.15	±0.15
100KG	0	100	kPa	400	800	1000	±0.15	±0.075	4.90	5.10	5.30	±0.50	±1.00	±0.50	±1.25	±0.10	±0.10
160KG	0	160	kPa	400	800	1000	±0.15	±0.075	7.84	8.15	8.48	±0.30	±0.65	±0.50	±1.25	±0.10	±0.10
250KG	0	250	kPa	800	1700	1000	±0.15	±0.075	6.10	6.35	6.59	±0.40	±0.80	±0.50	±1.50	±0.10	±0.10
400KG	0	400	kPa	1000	1700	1600	±0.15	±0.075	5.57	5.80	6.04	±0.50	±1.00	±0.50	±1.25	±0.10	±0.10
600KG	0	600	kPa	1700	1700	1700	±0.15	±0.075	5.08	5.30	5.54	±0.65	±1.00	±0.50	±1.00	±0.15	±0.15
001GG	0	1	MPa	1.70	1.70	1.7	±0.15	±0.075	8.47	8.85	9.22	±0.40	±0.60	±0.50	±1.00	±0.10	±0.10

[1]Offset: The output signal obtained when the reference pressure is applied to all available pressure ports. Also known as “null” or “zero”.

[2]Thermal effect on offset: The deviation in offset due to changes in temperature over the compensated temperature range, relative to offset measured at 25 ºC.

[3]Thermal effect on span: The deviation in full scale span due to changes in temperature over the compensated temperature range, relative to full scale span measured at 25 ºC.

[4]Thermal hysteresis: The maximum difference between output readings when the same temperature is reached consecutively, under the same operating conditions, with temperature approaching from opposite directions within the operating temperature range. Validated over the full operating temperature and pressure ranges using a ~5 ºC/minute ramp and 30 minute dwell. Application performance may be affected by the thermal mass of the end user system.

TSC Series Specifications
±1 psi to ±150 psi

Table 8. TSC Series Pressure Range Specifications for ±1 psi to ±150 psi

Pressure Range Order Code (see Figure 1)	Pressure Range		Unit	Over Pressure	Burst Pressure	Common Mode Pressure	Pressure Accuracy (%FSS)	Offset[1] (mV/V)	Full Scale Span (mV/V)			Thermal Effect on Offset[2] (%FSS)		Thermal Effect on Span[3] (%FSS)		Long-Term Stability 1000 hr, 25 °C (%FSS)	Thermal Hysteresis[4] (%FSS)
	Pmin.	Pmax.							Min.	Nom.	Max.	10 °C to 50 °C	0 °C to 85 °C	10 °C to 50 °C	0 °C to 85 °C		
Differential																	
001PD	-1	1	psi	12.5	20	145	±0.20	±0.075	2.84	3.00	3.22	±0.50	±1.00	±1.00	±2.00	±0.15	±0.15
005PD	-5	5	psi	30	60	145	±0.15	±0.12	9.40	10.00	10.60	±0.40	±0.75	±0.75	±2.00	±0.10	±0.10
015PD	-15	15	psi	60	115	145	±0.15	±0.075	10.12	10.50	10.98	±0.25	±0.50	±0.50	±1.25	±0.10	±0.10
030PD	-30	30	psi	115	245	145	±0.15	±0.075	10.10	10.50	10.90	±0.25	±0.50	±0.50	±1.50	±0.10	±0.10
060PD	-60	60	psi	145	245	230	±0.15	±0.075	11.52	12.00	12.48	±0.25	±0.50	±0.50	±1.25	±0.10	±0.10
100PD	-100	100	psi	245	245	245	±0.15	±0.075	11.66	12.00	12.72	±0.30	±0.45	±0.50	±1.00	±0.10	±0.10
150PD	-150	150	psi	245	245	245	±0.15	±0.075	17.50	18.30	19.08	±0.20	±0.30	±0.50	±1.00	±0.10	±0.10
Gage																	
001PG	0	1	psi	12.7	20	145	±0.20	±0.075	1.42	1.50	1.61	±1.00	±2.05	±1.00	±2.00	±0.25	±0.25
005PG	0	5	psi	30	60	145	±0.15	±0.12	4.70	5.00	5.30	±0.75	±1.50	±0.75	±2.00	±0.10	±0.10
015PG	0	15	psi	60	115	145	±0.15	±0.075	5.06	5.25	5.49	±0.50	±0.95	±0.50	±1.25	±0.10	±0.10
030PG	0	30	psi	115	245	145	±0.15	±0.075	5.05	5.25	5.45	±0.50	±0.95	±0.50	±1.50	±0.10	±0.10
060PG	0	60	psi	145	245	230	±0.15	±0.075	5.76	6.00	6.24	±0.50	±0.95	±0.50	±1.25	±0.10	±0.10
100PG	0	100	psi	245	245	245	±0.15	±0.075	5.83	6.10	6.36	±0.60	±0.85	±0.50	±1.00	±0.10	±0.10
150PG	0	150	psi	245	245	245	±0.15	±0.075	8.75	9.15	9.54	±0.40	±0.60	±0.50	±1.00	±0.10	±0.10

[1]Offset: The output signal obtained when the reference pressure is applied to all available pressure ports. Also known as “null” or “zero”.

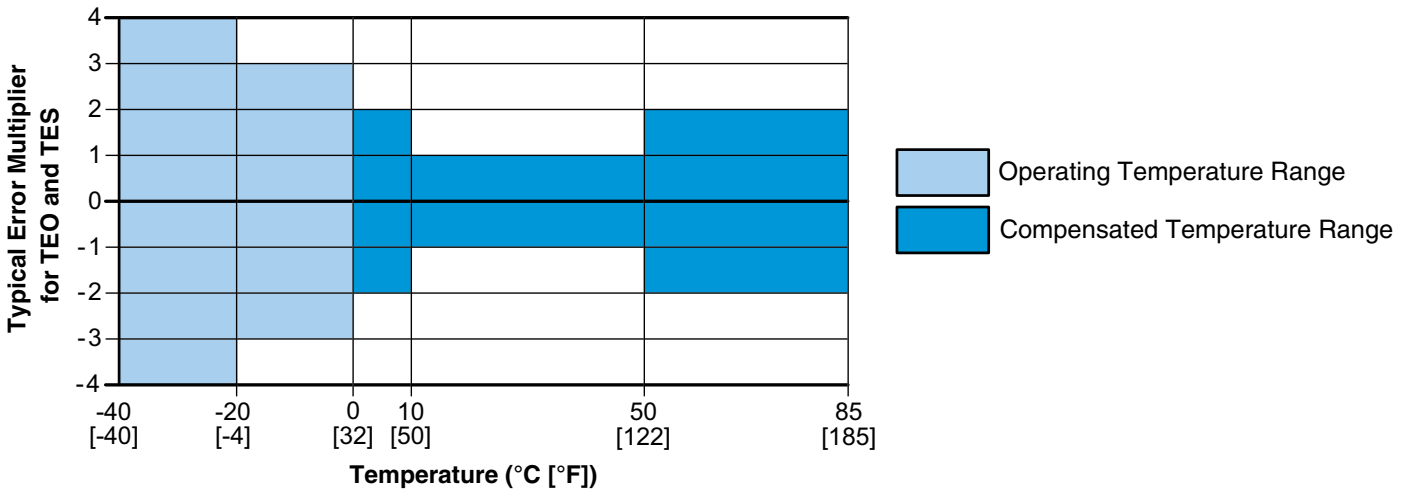
[2]Thermal Effect on Offset: The deviation in offset due to changes in temperature over the compensated temperature range, relative to offset measured at 25 °C.

[3]Thermal Effect on Span: The deviation in full scale span due to changes in temperature over the compensated temperature range, relative to full scale span measured at 25 °C.

[4]Thermal Hysteresis: The maximum difference between output readings when the same temperature is reached consecutively, under the same operating conditions, with temperature approaching from opposite directions within the operating temperature range. Validated over the full operating temperature and pressure ranges using a ~5 °C/minute ramp and 30 minute dwell. Application performance may be affected by the thermal mass of the end user system.

Figure 3. TSC Series Typical Temperature Performance

The graph below indicates typical error multipliers for Thermal Effect on Offset (TEO) and Thermal Effect on Span (TES) outside the Compensated Temperature Range. See Tables 6-8 for details of the specified maximum errors within the Compensated Temperature Range.



NSC Series Specifications
±2.5 mbar to ±10 bar

Table 9. NSC Series Pressure Range Specifications for ±2.5 mbar to ±10 bar

Pressure Range Order Code (see Figure 2)	Pressure Range		Unit	Working Pressure	Over Pressure	Burst Pressure	Common Mode Pressure	Offset[1] (mV/V)			Full Scale Span (mV/V)			TCO[2] (%FSS/25 °C)			TCS[3] (%FSS/25 °C)			Input Resistance[4] (kOhm)			TCR[5] (-40 °C to 25 °C) (ppm/°C)			TCR[5] (25 °C to 85 °C) (ppm/°C)			Long-Term Stability 1000 hr, 25 °C (%FSS)	Accuracy (%FSS)
	Pmin.	Pmax.						Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.		
Absolute																														
001BA	0	1	bar	-	2	4.1	N/A	-6.0	0.0	6.0	10.0	14.5	19.0	-3.8	0.0	3.8	-7.5	-5	-3.0	2.6	3.5	4.4	500	1000	1500	1500	2000	2500	±0.25	±0.25
1.6BA	0	1.6	bar	-	4.1	8	N/A	-6.0	0.0	6.0	7.7	11.4	15.2	-4.9	0.0	4.9	-7.5	-5	-3.0	2.6	3.5	4.4	500	1000	1500	1500	2000	2500	±0.25	±0.25
2.5BA	0	2.5	bar	-	4.1	8	N/A	-6.0	0.0	6.0	12.0	17.9	23.8	-3.1	0.0	3.1	-7.5	-5	-3.0	2.6	3.5	4.4	500	1000	1500	1500	2000	2500	±0.20	±0.25
004BA	0	4	bar	-	8	17	N/A	-6.0	0	6.0	10.3	14.7	19.0	-3.6	0.0	3.6	-7.5	-5	-3.0	2.6	3.5	4.4	500	1000	1500	1500	2000	2500	±0.25	±0.25
006BA	0	6	bar	-	17	17	N/A	-6.0	0.0	6.0	7.9	11.0	14.0	-4.8	0.0	4.8	-7.5	-5	-3.0	2.6	3.5	4.4	500	1000	1500	1500	2000	2500	±0.25	±0.25
010BA	0	10	bar	-	17	17	N/A	-6.0	0.0	6.0	13.2	18.3	23.4	-2.9	0.0	2.9	-7.5	-5	-3.0	2.6	3.5	4.4	500	1000	1500	1500	2000	2500	±0.20	±0.25
Differential																														
2.5MD	-2.5	2.5	mbar	335	675	1000	3450	-24	-4	16	10.5	15.8	21.	-3.0	5.1	13.3	-8.9	-6	-3.8	2.5	3.3	4	1800	2175	2550	1300	1525	1750	±0.50	±0.25
004MD	-4	4	mbar	335	675	1000	3450	-24	-4	16	16.9	25.3	33.7	-1.9	3.2	8.3	-8.9	-6	-3.8	2.5	3.3	4	1800	2175	2550	1300	1525	1750	±0.30	±0.25
006MD	-6	6	mbar	335	675	1000	3450	-24	-4	16	25.3	37.9	50.6	-1.2	2.1	5.5	-8.9	-6	-3.8	2.5	3.3	4	1800	2175	2550	1300	1525	1750	±0.20	±0.25
010MD	-10	10	mbar	375	745	1250	5450	-24	-4	16	35.2	52.6	70.0	-1.9	1.8	5.5	-8.9	-6	-3.8	2.5	3.3	4	1800	2175	2550	1300	1525	1750	±0.25	±0.25
016MD	-16	16	mbar	435	850	1350	10,450	-8.0	-2.0	4.0	6.7	10.1	13.5	-3.1	0.8	4.7	-8.9	-6	-3.8	2.5	3.3	4	1800	2175	2550	1300	1525	1750	±0.40	±0.25
025MD	-25	25	mbar	435	850	1350	10,450	-8.0	-2.0	4.0	10.5	15.8	21.1	-2.0	0.5	3.0	-8.9	-6	-3.8	2.5	3.3	4	1800	2175	2550	1300	1525	1750	±0.25	±0.25
040MD	-40	40	mbar	435	850	1380	10,450	-8.5	-2.5	3.5	5.2	7.5	9.9	-1.9	0.9	1.9	-6.3	-5	-3.8	4	5	6	1200	1700	2550	2220	2700	3200	±0.30	±0.25
060MD	-60	60	mbar	435	850	1380	10,450	-8.5	-2.5	3.5	7.8	11.3	14.8	-1.3	0.6	1.3	-6.3	-5	-3.8	4	5	6	1200	1700	2200	2220	2700	3200	±0.20	±0.25
100MD	-100	100	mbar	435	850	1380	10,450	-8.5	-2.5	3.5	13.1	18.9	24.7	-0.8	0.3	0.8	-6.3	-5	-3.8	4	5	6	1200	1700	2200	2220	2700	3200	±0.15	±0.25
160MD	-160	160	mbar	435	850	1380	10,450	-8.5	-2.5	3.5	20.9	30.2	39.5	-0.5	0.2	0.5	-6.3	-5	-3.8	4	5	6	1200	1700	2200	2220	2700	3200	±0.15	±0.25
250MD	-250	250	mbar	-	1380	2760	10,000	-8.5	-2.5	3.5	14.5	21.8	29.0	-0.7	0.3	0.7	-6.3	-5	-3.8	4	5	6	1200	1700	2200	2220	2700	3200	±0.25	±0.25
400MD	-400	400	mbar	-	1380	2760	10,000	-8.5	-2.5	3.5	23.2	34.8	46.4	-0.4	0.2	0.4	-6.3	-5	-3.8	4	5	6	1200	1700	2200	2220	2700	3200	±0.15	±0.25
600MD	-600	600	mbar	-	2060	4100	10,000	-7.0	-0.85	5.3	12.0	18.0	24.0	-0.8	0.5	0.8	-6.0	-5	-3.8	2.4	3	5.5	1200	1700	2200	2220	2700	3200	±0.20	±0.25
001BD	-1	1	bar	-	2	4.1	10	-7.0	-0.85	5.3	20.0	30.0	40.0	-0.6	0.3	0.5	-6.0	-5	-3.8	2.4	3	5.5	1200	1700	2200	2220	2700	3200	±0.15	±0.25
1.6BD	-1.6	1.6	bar	-	4.1	8	10	-7.0	-0.85	5.3	24.0	32.0	40.0	-0.4	0.3	0.4	-6.0	-5	-3.8	2.4	3	5.5	1200	1700	2200	2220	2700	3200	±0.15	±0.25
2.5BD	-2.5	2.5	bar	-	4.1	8	10	-7.0	-0.85	5.3	37.5	50.0	62.5	-0.3	0.2	0.3	-6.0	-5	-3.8	2.4	3	5.5	1200	1700	2200	2220	2700	3200	±0.10	±0.25
004BD	-4	4	bar	-	8	17	17	-7.0	-0.85	5.3	33.6	40.0	46.4	-0.3	0.2	0.3	-6.0	-5	-3.8	2.4	3	5.5	1200	1700	2200	2220	2700	3200	±0.15	±0.25
006BD	-6	6	bar	-	17	17	17	-7.0	-0.85	5.3	25.2	30.0	34.8	-0.4	0.3	0.4	-6.0	-5	-3.8	2.4	3	5.5	1200	1700	2200	2220	2700	3200	±0.15	±0.25
010BD	-10	10	bar	-	17	17	17	-7.0	-0.85	5.3	42.0	50.0	58.0	-0.2	0.1	0.2	-6.0	-5	-3.8	2.4	3	5.5	1200	1700	2200	2220	2700	3200	±0.10	±0.25
Gage																														
004MG	0	4	mbar	335	675	1000	3440	-24	-4	16	8.4	12.6	16.9	-3.7	6.4	16.6	-8.9	-6	-3.8	2.5	3.3	4	1800	2175	2550	1300	1525	1750	±0.50	±0.25
006MG	0	6	mbar	335	675	1000	3440	-24	-4	16	12.6	19.0	25.3	-2.5	4.3	11.0	-8.9	-6	-3.8	2.5	3.3	4	1800	2175	2550	1300	1525	1750	±0.40	±0.25
010MG	0	10	mbar	375	745	1245	5440	-24	-4	16	17.6	26.3	35.0	-3.8	3.6	11.0	-8.9	-6	-3.8	2.5	3.3	4	1800	2175	2550	1300	1525	1750	±0.50	±0.25
016MG	0	16	mbar	435	850	1350	10,440	-8.5	-2.0	4.0	3.4	5.1	6.7	-6.2	1.6	9.3	-8.9	-6	-3.8	2.5	3.3	4	1800	2175	2550	1300	1525	1750	±0.50	±0.25
025MG	0	25	mbar	435	850	1350	10,440	-8.5	-2.0	4.0	5.3	7.9	10.5	-4.0	1.0	6.0	-8.9	-6	-3.8	2.5	3.3	4	1800	2175	2550	1300	1525	1750	±0.50	±0.25
040MG	0	40	mbar	435	850	1380	10,440	-8.5	-2.5	3.5	2.6	3.8	4.9	-3.8	1.7	3.8	-6.3	-5	-3.8	4	5	6	1200	1700	2200	2220	2700	3200	±0.50	±0.25
060MG	0	60	mbar	435	850	1380	10,440	-8.5	-2.5	3.5	3.9	5.7	7.4	-2.6	1.1	2.6	-6.3	-5	-3.8	4	5	6	1200	1700	2200	2220	2700	3200	±0.40	±0.25
100MG	0	100	mbar	435	850	1380	10,440	-8.5	-2.5	3.5	6.5	9.4	12.3	-1.5	0.7	1.5	-6.3	-5	-3.8	4	5	6	1200	1700	2200	2220	2700	3200	±0.25	±0.25
160MG	0	160	mbar	435	850	1380	10,440	-8.5	-2.5	3.5	10.4	15.1	19.7	-1.0	0.4	1.0	-6.3	-5	-3.8	4	5	6	1200	1700	2200	2220	2700	3200	±0.15	±0.25
250MG	0	250	mbar	-	1380	2760	10,000	-8.5	-2.5	3.5	7.3	10.9	14.5	-1.4	0.6	1.4	-6.3	-5	-3.8	4	5	6	1200	1700	2200	2220	2700	3200	±0.35	±0.25
400MG	0	400	mbar	-	1380	2760	10,000	-8.5	-2.5	3.5	11.6	17.4	23.2	-0.9	0.3	0.9	-6.3	-5	-3.8	4	5	6	1200	1700	2200	2220	2700	3200	±0.30	±0.25
600MG	0	600	mbar	-	2060	4100	10,000	-7.0	-0.85	5.3	6.0	9.0	12.0	-1.7	1.0	1.7	-6.0	-5	-3.8	2.4	3	5.5	1200	1700	2200	2220	2700	3200	±0.25	±0.25
001BG	0	1	bar	-	2	4.1	10	-7.0	-0.85	5.3	10.0	15.0	20.0	-1.0	0.6	1.0	-6.0	-5	-3.8	2.4	3	5.5	1200	1700	2200	2220	2700	3200	±0.25	±0.25
1.6BG	0	1.6	bar	-	4.1	8	10	-7.0	-0.85	5.3	12.0	16.0	20.0	-0.8	0.5	0.8	-6.0	-5	-3.8	2.4	3	5.5	1200	1700	2200	2220	2700	3200	±0.25	±0.25
2.5BG	0	2.5	bar	-	4.1	8	10	-7.0	-0.85	5.3	18.8	25.0	31.3	-0.6	0.3	0.5	-6.0	-5	-3.8	2.4	3	5.5	1200	1700	2200	2220	2700	3200	±0.20	±0.25
004BG	0	4	bar	-	8	17	17	-7.0	-0.85	5.3	16.8	20.0	23.2	-0.6	0.4	0.6	-6.0	-5	-3.8	2.4	3	5.5	1200	1700	2200	2220	2700	3200	±0.25	±0.25
006BG	0	6	bar	-	17	17	17	-7.0	-0.85	5.3	12.6	15.0	17.4	-0.8	0.6	0.8	-6.0	-6	-3.8	2.4	3	5.5	1200	1700	2200	2220	2700	3200	±0.25	±0.25
010BG	0	10	bar	-	17	17	17	-7.0	-0.85	5.3	21.0	25.0	29.0	-0.5	0.4	0.5	-6.0	-6	-3.8	2.4	3	5.5	1200	1700	2200	2220	2700	3200	±0.20	±0.25

[1]Offset: The output signal obtained when the reference pressure is applied to all available pressure ports. Also known as “null” or “zero”.

[2]TCO (Thermal Coefficient of Offset): The deviation in offset due to changes in temperature over the compensated temeprature range, relative to offset measured at 25 °C.

[3]TCS (Thermal Coefficient of Span): The deviation in full scale span due to changes in temperature over the compensated temeprature range, relative to full scale span measured at 25 °C.

[4]Input Resistance at 25 °C, 5 Vdc supply.

[5]TCR (Thermal Coefficient of Resistance): The deviation in input resistance due to changes in temperature over the specified temperature range, relative to input resistance measured at 25 °C.

NSC Series Specifications
±250 Pa to ±1 Mpa

Table 10. NSC Series Pressure Range Specifications for ±250 Pa to ±1 MPa

Pressure Range Order Code (see Figure 2)	Pressure Range		Unit	Working Pressure	Over Pressure	Burst Pressure	Common Mode Pressure	Offset[1] (mV/V)			Full Scale Span (mV/V)			TCO[2] (%FSS/25 °C)			TCS[3] (%FSS/25 °C)			Input Resistance[4] (kOhm)			TCR[5] (-40°C to 25°C) (ppm/°C)			TCR[5] (25 °C to 85 °C) (ppm/°C)			Long-Term Stability 1000 hr, 25 °C (%FSS)	Accuracy (%FSS)
	Pmin.	Pmax.						Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.		
Absolute																														
100KA	0	100	kPa	-	200	400	N/A	-6	0	6	10.0	14.5	19.0	-3.8	0.0	3.8	-7.5	-5	-3.0	2.6	3.5	4.4	500	1000	1500	1500	2000	2500	±0.25	±0.25
160KA	0	160	kPa	-	400	800	N/A	-6	0	6	7.7	11.4	15.2	-4.9	0.0	4.9	-7.5	-5	-3.0	2.6	3.5	4.4	500	1000	1500	1500	2000	2500	±0.25	±0.25
250KA	0	250	kPa	-	400	800	N/A	-6	0	6	12.0	17.9	23.8	-3.1	0.0	3.1	-7.5	-5	-3.0	2.6	3.5	4.4	500	1000	1500	1500	2000	2500	±0.20	±0.25
400KA	0	400	kPa	-	800	1700	N/A	-6	0	6	10.3	14.7	19.0	-3.6	0.0	3.6	-7.5	-5	-3.0	2.6	3.5	4.4	500	1000	1500	1500	2000	2500	±0.25	±0.25
600KA	0	600	kPa	-	1700	1700	N/A	-6	0	6	7.9	11.0	14.0	-4.8	0.0	4.8	-7.5	-5	-3.0	2.6	3.5	4.4	500	1000	1500	1500	2000	2500	±0.25	±0.25
001GA	0	1	MPa	-	1.7	1.7	N/A	-6	0	6	13.2	18.3	23.4	-2.9	0.0	2.9	-7.5	-5	-3.0	2.6	3.5	4.4	500	1000	1500	1500	2000	2500	±0.20	±0.25
Differential																														
250LD	-250	250	Pa	33,500	67,500	100,000	345,000	-24	-4	16	10.5	15.8	21.1	-3.0	5.1	13.3	-8.9	-6	-3.8	2.5	3.3	4	1800	2175	2550	1300	1525	1750	±0.50	±0.25
400LD	-400	400	Pa	33,500	67,500	100,000	345,000	-24	-4	16	16.9	25.3	33.7	-1.9	3.2	8.3	-8.9	-6	-3.8	2.5	3.3	4	1800	2175	2550	1300	1525	1750	±0.30	±0.25
600LD	-600	600	Pa	33,500	67,500	100,000	345,000	-24	-4	16	25.3	37.9	50.6	-1.2	2.1	5.5	-8.9	-6	-3.8	2.5	3.3	4	1800	2175	2550	1300	1525	1750	±0.20	±0.25
001KD	-1	1	kPa	40	75	125	560	-24	-4	16	35.2	52.6	70.0	-1.9	1.8	5.5	-8.9	-6	-3.8	2.5	3.3	4	1800	2175	2550	1300	1525	1750	±0.25	±0.25
1.6KD	-1.6	1.6	kPa	40	75	125	560	-24	-4	16	56.3	84.1	112.0	-1.2	1.1	3.4	-8.9	-6	-3.8	2.5	3.3	4	1800	2175	2550	1300	1525	1750	±0.15	±0.25
2.5KD	-2.5	2.5	kPa	45	85	135	1040	-8	-2	-4	10.5	15.8	21.1	-2.0	0.5	3.0	-8.9	-6	-3.8	2.5	3.3	4	1800	2175	2550	1300	1525	1750	±0.25	±0.25
004KD	-4	4	kPa	45	85	140	1040	-8.5	-2.5	3.5	5.2	7.5	9.9	-1.9	0.9	1.9	-6.3	-5	-3.8	4	5	6	1200	1700	2200	2220	2700	3200	±0.30	±0.25
006KD	-6	6	kPa	45	85	140	1040	-8.5	-2.5	3.5	7.8	11.3	14.8	-1.3	0.6	1.3	-6.3	-5	-3.8	4	5	6	1200	1700	2200	2220	2700	3200	±0.20	±0.25
010KD	-10	10	kPa	45	85	140	1040	-8.5	-2.5	3.5	13.1	18.9	24.7	-0.8	0.3	0.8	-6.3	-5	-3.8	4	5	6	1200	1700	2200	2220	2700	3200	±0.15	±0.25
016KD	-16	16	kPa	45	85	140	1040	-8.5	-2.5	3.5	20.9	30.2	39.5	-0.5	0.2	0.5	-6.3	-5	-3.8	4	5	6	1200	1700	2200	2220	2700	3200	±0.15	±0.25
025KD	-25	25	kPa	-	140	275	1000	-8.5	-2.5	3.5	14.5	21.8	29.0	-0.7	0.3	0.7	-6.3	-5	-3.8	4	5	6	1200	1700	2200	2220	2700	3200	±0.25	±0.25
040KD	-40	40	kPa	-	140	275	1000	-8.5	-2.5	3.5	23.2	34.8	46.4	-0.4	0.2	0.4	-6.3	-5	-3.8	4	5	6	1200	1700	2200	2220	2700	3200	±0.15	±0.25
060KD	-60	60	kPa	-	200	400	1000	-7	-0.85	5.3	12.0	18.0	24.0	-0.8	0.5	0.8	-6.0	-5	-3.8	2.4	3	5.5	1200	1700	2200	2220	2700	3200	±0.20	±0.25
100KD	-100	100	kPa	-	200	400	1000	-7	-0.85	5.3	20.0	30.0	40.0	-0.5	0.3	0.5	-6.0	-5	-3.8	2.4	3	5.5	1200	1700	2200	2220	2700	3200	±0.15	±0.25
160KD	-160	160	kPa	-	410	800	1000	-7	-0.85	5.3	24.0	32.0	40.0	-0.4	0.3	0.4	-6.0	-5	-3.8	2.4	3	5.5	1200	1700	2200	2220	2700	3200	±0.15	±0.25
250KD	-250	250	kPa	-	410	800	1000	-7	-0.85	5.3	37.5	50.0	62.5	-0.2	0.2	0.2	-6.0	-5	-3.8	2.4	3	5.5	1200	1700	2200	2220	2700	3200	±0.10	±0.25
400KD	-400	400	kPa	-	800	1700	1700	-7	-0.85	5.3	33.6	40.0	46.4	-0.3	0.2	0.3	-6.0	-5	-3.8	2.4	3	5.5	1200	1700	2200	2220	2700	3200	±0.15	±0.25
600KD	-600	600	kPa	-	1700	1700	1700	-7	-0.85	5.3	25.2	30.0	34.8	-0.4	0.3	0.4	-6.0	-5	-3.8	2.4	3	5.5	1200	1700	2200	2220	2700	3200	±0.15	±0.25
001GD	-1	1	MPa	-	1.7	1.7	17	-7	-0.85	5.3	42.0	50.0	58.0	-0.2	0.2	0.2	-6.0	-5	-3.8	2.4	3	5.5	1200	1700	2200	2220	2700	3200	±0.10	±0.25
Gage																														
400LG	0	400	Pa	33,500	67,500	100,000	345,000	-24	-4	16	8.4	12.6	16.9	-3.7	6.4	16.6	-8.9	-6	-3.8	2.5	3.3	4	1800	2175	2550	1300	1525	1750	±0.50	±0.25
600LG	0	600	Pa	33,500	67,500	100,000	345,000	-24	-4	16	12.6	19.0	25.3	-2.5	4.3	11.0	-8.9	-6	-3.8	2.5	3.3	4	1800	2175	2550	1300	1525	1750	±0.40	±0.25
001KG	0	1	kPa	40	75	125	560	-24	-4	16	17.6	26.3	35.0	-3.8	3.6	11.0	-8.9	-6	-3.8	2.5	3.3	4	1800	2175	2550	1300	1525	1750	±0.50	±0.25
1.6KG	0	1.6	kPa	40	75	125	560	-24	-4	16	28.1	42.1	56.0	-2.4	2.2	6.9	-8.9	-6	-3.8	2.5	3.3	4	1800	2175	2550	1300	1525	1750	±0.30	±0.25
004KG	0	4	kPa	45	85	140	1040	-8.5	-2.5	3.5	2.6	3.8	4.9	-3.8	1.7	3.8	-6.3	-5	-3.8	4	5	6	1200	1700	2200	2220	2700	3200	±0.50	±0.25
006KG	0	6	kPa	45	85	140	1040	-8.5	-2.5	3.5	3.9	5.7	7.4	-2.5	1.1	2.5	-6.3	-5	-3.8	4	5	6	1200	1700	2200	2220	2700	3200	±0.35	±0.25
010KG	0	10	kPa	45	85	140	1040	-8.5	-2.5	3.5	6.5	9.4	12.3	-1.5	0.7	1.5	-6.3	-5	-3.8	4	5	6	1200	1700	2200	2220	2700	3200	±0.25	±0.25
016KG	0	16	kPa	45	85	140	1040	-8.5	-2.5	3.5	10.4	15.1	19.7	-0.9	0.4	0.9	-6.3	-5	-3.8	4	5	6	1200	1700	2200	2220	2700	3200	±0.15	±0.25
025KG	0	25	kPa	-	140	275	1000	-8.5	-2.5	3.5	7.3	10.9	14.5	-1.4	0.6	1.4	-6.3	-5	-3.8	4	5	6	1200	1700	2200	2220	2700	3200	±0.35	±0.25
040KG	0	40	kPa	-	140	275	1000	-8.5	-2.5	3.5	11.6	17.4	23.2	-0.9	0.3	0.9	-6.3	-5	-3.8	4	5	6	1200	1700	2200	2220	2700	3200	±0.30	±0.25
060KG	0	60	kPa	-	200	400	1000	-7	-0.85	5.3	6.0	9.0	12.0	-1.7	1.0	1.7	-6	-5	-3.8	2.4	3	5.5	1200	1700	2200	2220	2700	3200	±0.25	±0.25
100KG	0	100	kPa	-	200	400	1000	-7	-0.85	5.3	10.0	15.0	20.0	-1.0	0.6	1.0	-6	-5	-3.8	2.4	3	5.5	1200	1700	2200	2220	2700	3200	±0.25	±0.25
160KG	0	160	kPa	-	410	800	1000	-7	-0.85	5.3	12.0	16.0	20.0	-0.8	0.5	0.8	-6	-5	-3.8	2.4	3	5.5	1200	1700	2200	2220	2700	3200	±0.25	±0.25
250KG	0	250	kPa	-	410	800	1000	-7	-0.85	5.3	18.8	25.0	31.3	-0.5	0.3	0.5	-6	-5	-3.8	2.4	3	5.5	1200	1700	2200	2220	2700	3200	±0.20	±0.25
400KG	0	400	kPa	-	800	1800	1720	-7	-0.85	5.3	16.8	20.0	23.2	-0.6	0.4	0.6	-6	-5	-3.8	2.4	3	5.5	1200	1700	2200	2220	2700	3200	±0.25	±0.25
600KG	0	600	kPa	-	1700	1800	1720	-7	-0.85	5.3	12.6	15.0	17.4	-0.8	0.6	0.8	-6	-6	-3.8	2.4	3	5.5	1200	1700	2200	2220	2700	3200	±0.25	±0.25
001GG	0	1	MPa	-	1.7	1.8	1.7	-7	-0.85	5.3	21.0	25.0	29.0	-0.5	0.3	0.5	-6	-6	-3.8	2.4	3	5.5	1200	1700	2200	2220	2700	3200	±0.20	±0.25

[1]Offset: The output signal obtained when the reference pressure is applied to all available pressure ports. Also known as “null” or “zero”.

[2]TCO (Thermal Coefficient of Offset): The deviation in offset due to changes in temperature over the compensated temeprature range, relative to offset measured at 25 °C.

[3]TCS (Thermal Coefficient of Span): The deviation in full scale span due to changes in temperature over the compensated temeprature range, relative to full scale span measured at 25 °C.

[4]Input Resistance at 25 °C, 5 Vdc supply.

[5]TCR (Thermal Coefficient of Resistance): The deviation in input resistance due to changes in temperature over the specified temperature range, relative to input resistance measured at 25 °C.

NSC Series Specifications
±1 in H_2O to ±150 psi

Table 11. NSC Series Pressure Range Specifications for ±1 inH_2O to ±150 psi

Pressure Range Order Code (see Figure 2)	Pressure Range		Unit	Working Pressure	Over Pressure	Burst Pressure	Common Mode Pressure	Offset[1] (mV/V)			Full Scale Span (mV/V)			TCO[2] (%FSS/25 °C)			TCS[3] (%FSS/25 °C)			Input Resistance[3] (kOhm)			TCR[4] (-40°C to 25°C) (ppm/°C)			TCR[5] (25 °C to 85 °C) (ppm/°C)			Long-Term Stability 1000 hr, 25 °C (%FSS)	Accuracy (%FSS)
	Pmin.	Pmax.						Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.		
Absolute																														
015PA	0	15	psi	-	30	60	N/A	-6.0	0	6.0	10.3	15.0	19.7	-3.6	0.0	3.6	-7.5	-5.0	-3.0	2.6	3.5	4.4	500	1000	1500	1500	2000	2500	±0.25	±0.25
030PA	0	30	psi	-	60	120	N/A	-6.0	0	6.0	9.9	14.8	19.7	-3.8	0.0	3.8	-7.5	-5.0	-3.0	2.6	3.5	4.4	500	1000	1500	1500	2000	2500	±0.25	±0.25
060PA	0	60	psi	-	120	250	N/A	-6.0	0	6.0	10.7	15.2	19.7	-3.5	0.0	3.5	-7.5	-5.0	-3.0	2.6	3.5	4.4	500	1000	1500	1500	2000	2500	±0.25	±0.25
100PA	0	100	psi	-	250	250	N/A	-6.0	0	6.0	9.1	12.6	16.1	-4.10	0.0	4.10	-7.5	-5.0	-3.0	2.6	3.5	4.4	500	1000	1500	1500	2000	2500	±0.25	±0.25
150PA	0	150	psi	-	250	250	N/A	-6.0	0	6.0	13.6	18.9	24.2	-2.8	0.0	2.8	-7.5	-5.0	-3.0	2.6	3.5	4.4	500	1000	1500	1500	2000	2500	±0.20	±0.25
Differential																														
001ND	-1	1	inH_2O	135	270	415	1400	-24	-4	16	10.5	15.7	21.0	-3.0	5.2	13.3	-8.9	-6	-3.8	2.5	3.3	4	1800	2175	2550	1300	1525	1750	0.50	±0.25
002ND	-2	2	inH_2O	135	270	415	1400	-24	-4	16	21.0	31.5	42.0	-1.5	2.6	6.7	-8.9	-6	-3.8	2.5	3.3	4	1800	2175	2550	1300	1525	1750	0.25	±0.25
004ND	-4	4	inH_2O	150	300	500	2200	-24	-4	16	35.0	52.4	69.8	-1.3	1.8	5.5	-8.9	-6	-3.8	2.5	3.3	4	1800	2175	2550	1300	1525	1750	0.25	±0.25
005ND	-5	5	inH_2O	150	300	500	2200	-24	-4	16	43.8	65.5	87.2	-1.5	1.4	4.4	-8.9	-6	-3.8	2.5	3.3	4	1800	2175	2550	1300	1525	1750	0.20	±0.25
010ND	-10	10	inH_2O	175	340	550	4200	-8.0	-2.0	4.0	10.5	15.7	21.0	-2.0	0.5	3.0	-8.9	-6	-3.8	2.5	3.3	4	1800	2175	2550	1300	1525	1750	0.25	±0.25
020ND	-20	20	inH_2O	175	340	550	4200	-8.5	-2.5	3.5	6.5	9.4	12.3	-1.5	0.7	1.5	-6.3	-5	-3.8	4	5	6	1200	1700	2200	2200	2700	3200	0.25	±0.25
030ND	-30	30	inH_2O	175	340	550	4200	-8.5	-2.5	3.5	9.8	14.1	18.4	-1.0	0.5	1.0	-6.3	-5	-3.8	4	5	6	1200	1700	2200	2200	2700	3200	0.15	±0.25
001PD	-1	1	psi	5	10	20	150	-8.5	-2.5	3.5	9.0	13.0	17.0	-1.1	0.5	1.1	-6.3	-5	-3.8	4	5	6	1200	1700	2200	2200	2700	3200	0.20	±0.25
005PD	-5	5	psi	-	20	40	150	-8.5	-2.5	3.5	20.0	30.0	40.0	-0.5	0.2	0.5	-6.3	-5	-3.8	4	5	6	1200	1700	2200	2200	2700	3200	0.20	±0.25
015PD	-15	15	psi	-	30	60	150	-7.0	-0.85	5.3	20.7	31.0	41.4	-0.5	0.3	0.5	-6	-5	-3.8	2.4	3	5.5	1200	1700	2200	2200	2700	3200	0.15	±0.25
030PD	-30	30	psi	-	60	120	150	-7.0	-0.85	5.3	31.0	41.4	51.7	-0.3	0.2	0.3	-6	-5	-3.8	2.4	3	5.5	1200	1700	2200	2200	2700	3200	0.15	±0.25
060PD	-60	60	psi	-	120	250	250	-7.0	-0.85	5.3	34.8	41.4	48.0	-0.3	0.2	0.3	-6	-5	-3.8	2.4	3	5.5	1200	1700	2200	2200	2700	3200	0.15	±0.25
100PD	-100	100	psi	-	250	250	250	-7.0	-0.85	5.3	29.0	34.5	40.0	-0.3	0.3	0.3	-6	-5	-3.8	2.4	3	5.5	1200	1700	2200	2200	2700	3200	0.15	±0.25
150PD	-150	150	psi	-	250	250	250	-7.0	-0.85	5.3	43.4	51.7	60.0	-0.2	0.2	0.2	-6	-5	-3.8	2.4	3	5.5	1200	1700	2200	2200	2700	3200	0.10	±0.25
Gage																														
002NG	0	2	inH_2O	135	270	415	1400	-24	-4	16	10.5	15.7	21.0	-3.0	5.2	13.3	-8.9	-6	-3.8	2.5	3.3	4	1800	2175	2550	1300	1525	1750	0.50	±0.25
004NG	0	4	inH_2O	150	300	500	2200	-24	-4	16	17.5	26.2	34.9	-3.8	3.6	11.0	-8.9	-6	-3.8	2.5	3.3	4	1800	2175	2550	1300	1525	1750	0.50	±0.25
005NG	0	5	inH_2O	150	300	500	2200	-24	-4	16	21.9	32.7	43.6	-3.0	2.9	8.8	-8.9	-6	-3.8	2.5	3.3	4	1800	2175	2550	1300	1525	1750	0.40	±0.25
010NG	0	10	inH_2O	175	340	550	4200	-8.0	-2.0	4.0	5.2	7.9	10.5	-4.0	1.0	6.0	-8.9	-6	-3.8	2.5	3.3	4	1800	2175	2550	1300	1525	1750	0.50	±0.25
020NG	0	20	inH_2O	175	340	550	4200	-8.5	-2.5	3.5	3.3	4.7	6.1	-3.0	1.4	3.0	-6.3	-5	-3.8	4	5	6	1200	1700	2200	2200	2700	3200	0.50	±0.25
030NG	0	30	inH_2O	175	340	550	4200	-8.5	-2.5	3.5	4.9	7.0	9.2	-2.0	0.9	2.0	-6.3	-5	-3.8	4	5	6	1200	1700	2200	2200	2700	3200	0.30	±0.25
001PG	0	1	psi	5	10	20	150	-8.5	-2.5	3.5	4.5	6.5	8.5	-2.2	1.0	2.2	-6.3	-5	-3.8	4	5	6	1200	1700	2200	2200	2700	3200	0.35	±0.25
005PG	0	5	psi	-	20	40	150	-8.5	-2.5	3.5	10.0	15.0	20.0	-1.0	0.4	1.0	-6.3	-5	-3.8	4	5	6	1200	1700	2200	2200	2700	3200	0.35	±0.25
015PG	0	15	psi	-	30	60	150	-7.0	-0.85	5.3	10.3	15.5	20.7	-1.0	0.6	1.0	-6.0	-5	-3.8	2.4	3	5.5	1200	1700	2200	2200	2700	3200	0.25	±0.25
030PG	0	30	psi	-	60	120	150	-7.0	-0.85	5.3	15.5	20.7	25.9	-0.6	0.4	0.6	-6.0	-5	-3.8	2.4	3	5.5	1200	1700	2200	2200	2700	3200	0.25	±0.25
060PG	0	60	psi	-	120	250	250	-7.0	-0.85	5.3	17.4	20.7	24.0	-0.6	0.4	0.6	-6.0	-5	-3.8	2.4	3	5.5	1200	1700	2200	2200	2700	3200	0.25	±0.25
100PG	0	100	psi	-	250	250	250	-7.0	-0.85	5.3	14.5	17.2	20.0	-0.7	0.5	0.7	-6.0	-5	-3.8	2.4	3	5.5	1200	1700	2200	2200	2700	3200	0.25	±0.25
150PG	0	150	psi	-	250	250	250	-7.0	-0.85	5.3	21.7	25.9	30.0	-0.6	0.3	0.6	-6.0	-5	-3.8	2.4	3	5.5	1200	1700	2200	2200	2700	3200	0.20	±0.25

[1]Offset: The output signal obtained when the reference pressure is applied to all available pressure ports. Also known as “null” or “zero”.

[2]TCO (Thermal Coefficient of Offset): The deviation in offset due to changes in temperature over the compensated temeprature range, relative to offset measured at 25 °C.

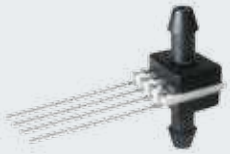
[3]TCS (Thermal Coefficient of Span): The deviation in full scale span due to changes in temperature over the compensated temeprature range, relative to full scale span measured at 25 °C.

[4]Input Resistance at 25 °C, 5 Vdc supply.

[5]TCR (Thermal Coefficient of Resistance): The deviation in input resistance due to changes in temperature over the specified temperature range, relative to input resistance measured at 25 °C.

Available Standard Configurations

Figure 4. All Available Standard Configurations (Dimensional drawings on pages noted below.)

Package Code	Pressure Port		
	DIP	SMT	SIP
NN	page 18 	page 20 	page 23 
AA	—	—	page 23 
AN	page 18 	page 21 	page 24 
LN	page 18 	page 21 	page 24 
FF	—	—	page 24 
FN	—	—	page 25 
GN	—	—	page 25 
NB	—	—	page 25 
RN	page 19 	page 21 	page 26 

Available Standard Configurations

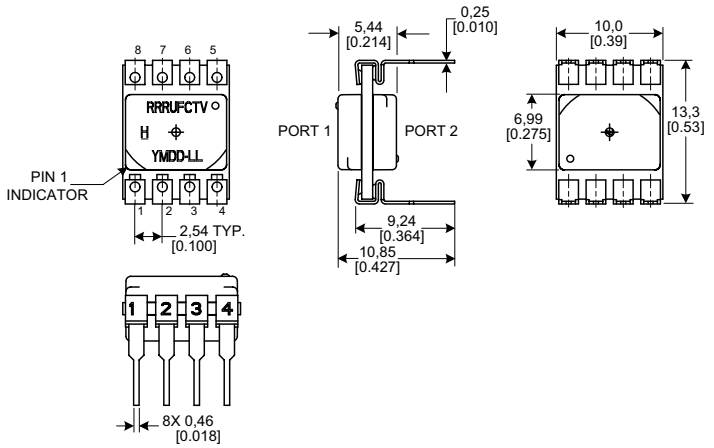
Figure 4. All Available Standard Configurations (Continued; dimensional drawings on pages noted below.)

Package Code	Pressure Port		
	DIP	SMT	SIP
RR	page 19 	page 22 	page 26 
DR	page 19 	page 22 	page 26 
JN	page 20 	page 22 	page 27 
JJ	page 20 	page 23 	page 27 
HH	—	—	page 27 
HN	—	—	page 28 
MN	—	—	page 28 
SN	—	—	page 28 

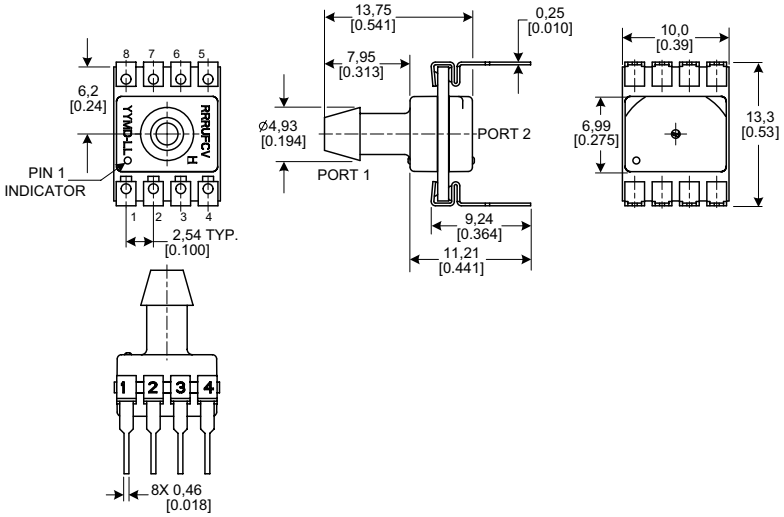
Dimensional Drawings
DIP Packages

Figure 5. DIP Package Dimensional Drawings (For reference only: mm [in])

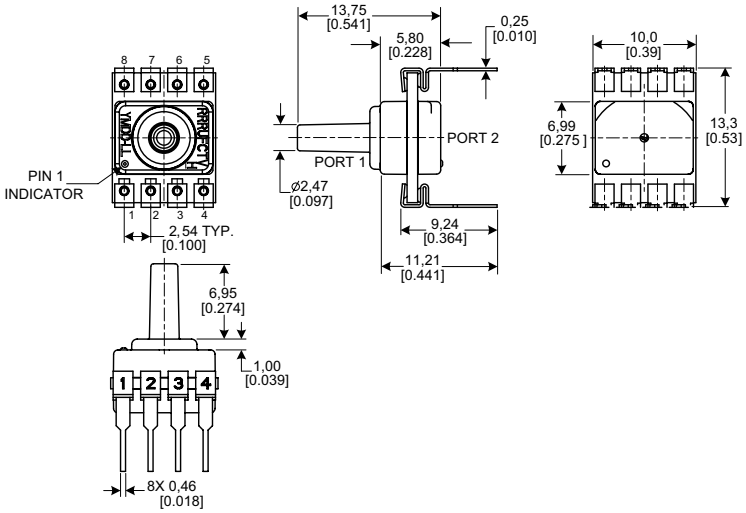
	Dimensions
DIP NN: No ports	



DIP AN: SIngle axial barbed port	



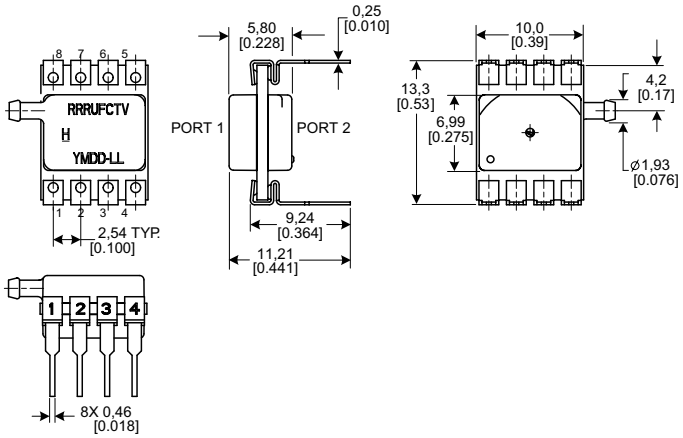
DIP LN: Single axial barbless port	

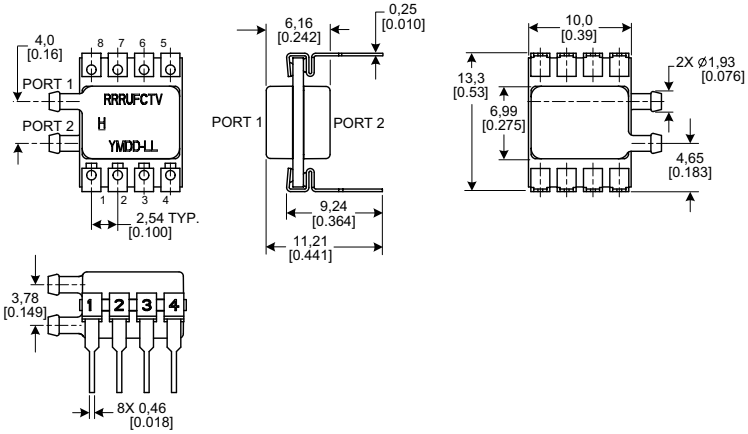


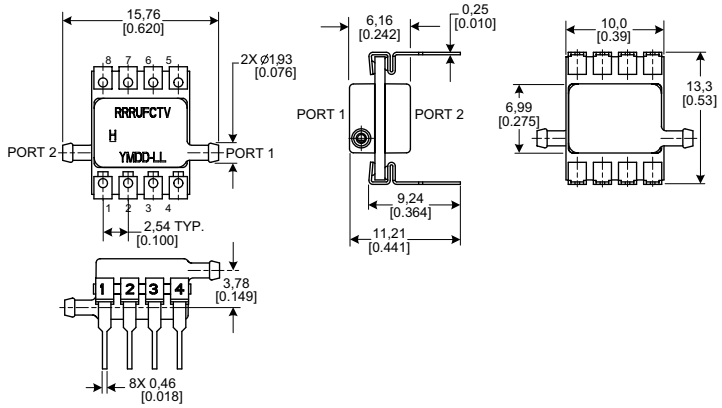
Dimensional Drawings
DIP Packages

Figure 5. 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	



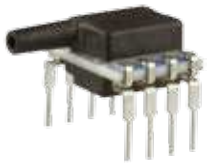


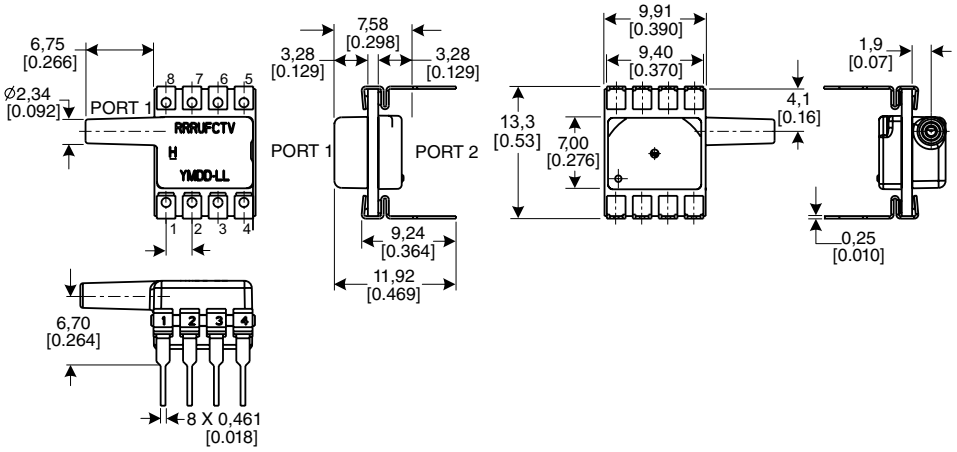


Dimensional Drawings
DIP and SMT Packages

Figure 5. DIP Package Dimensional Drawings (continued)

	Dimensions
DIP JN: Single radial barbless port	





DIP JJ: Dual radial radial barbless ports, same side	

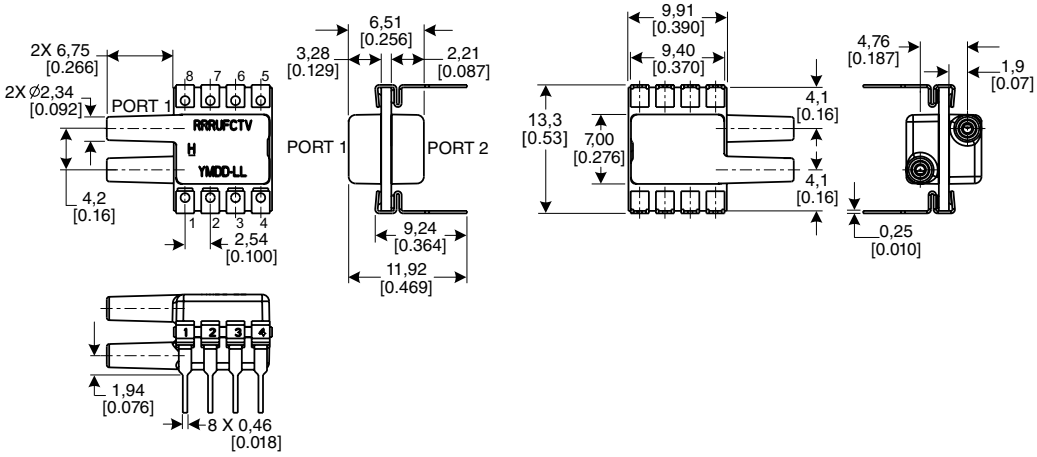
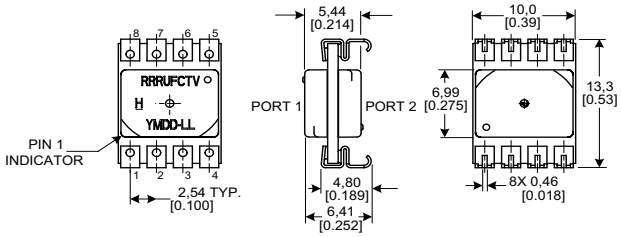


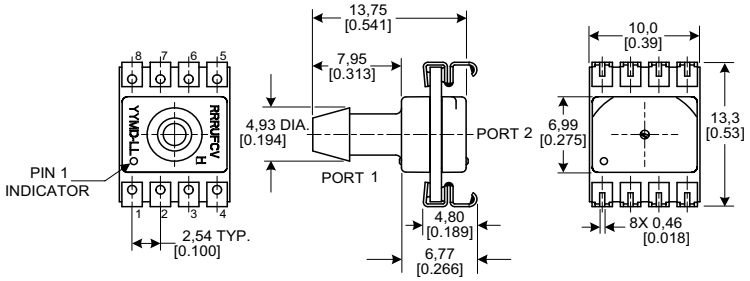
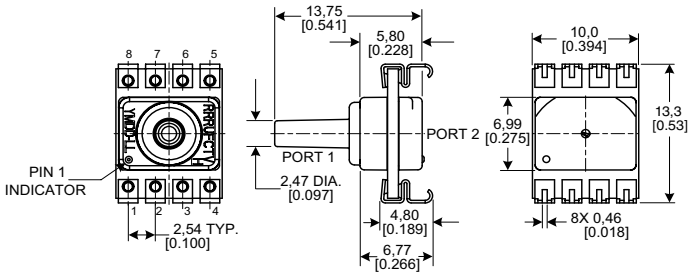
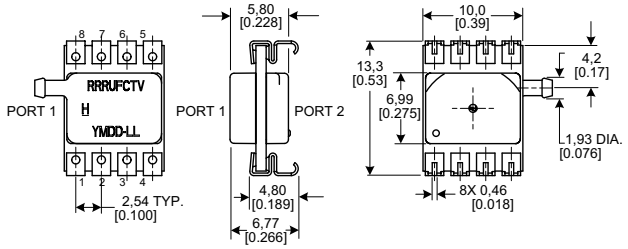
Figure 6. SMT Package Dimensional Drawings (For reference only: mm [in])

	Dimensions
SMT NN: No ports	



Dimensional Drawings
SMT Packages

Figure 6. SMT Package Dimensional Drawings (continued)

	Dimensions
SMT AN: Single axial barbless port	
	
SMT LN: Single axial barbless port	
	
SMT RN: Single radial barbed port	
	

Dimensional Drawings
SMT Packages

Figure 6. 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 6. SMT Package Dimensional Drawings (continued)

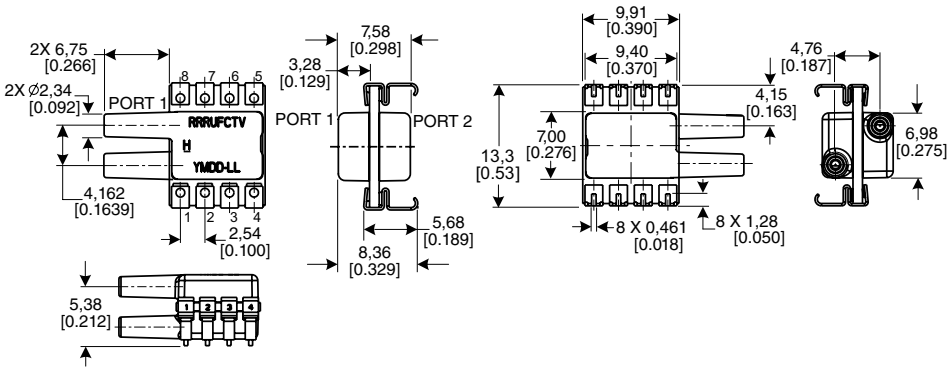
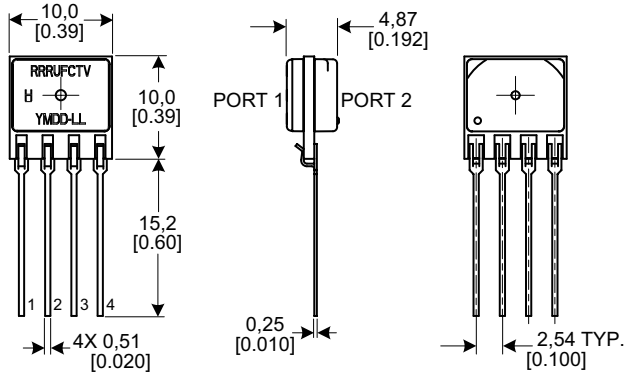
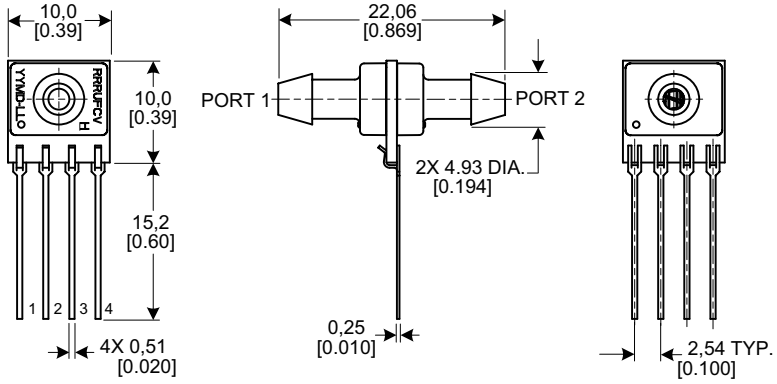
	Dimensions
SMT JJ: Dual radial barbless ports, same side 	

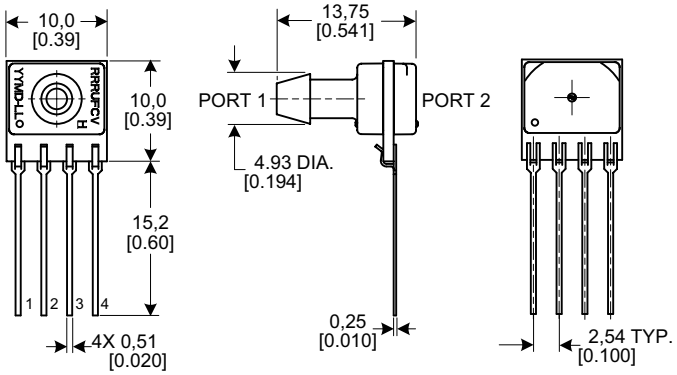
Figure 7. SIP Package Dimensional Drawings (For reference only: mm [in].)

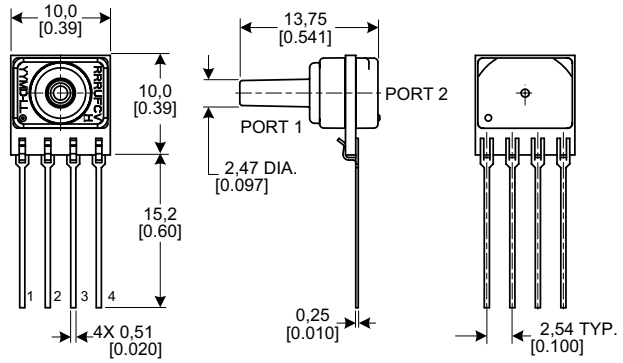
	Dimensions
SIP NN: No ports 	
SIP AA: Dual axial barbed ports, opposite sides 	

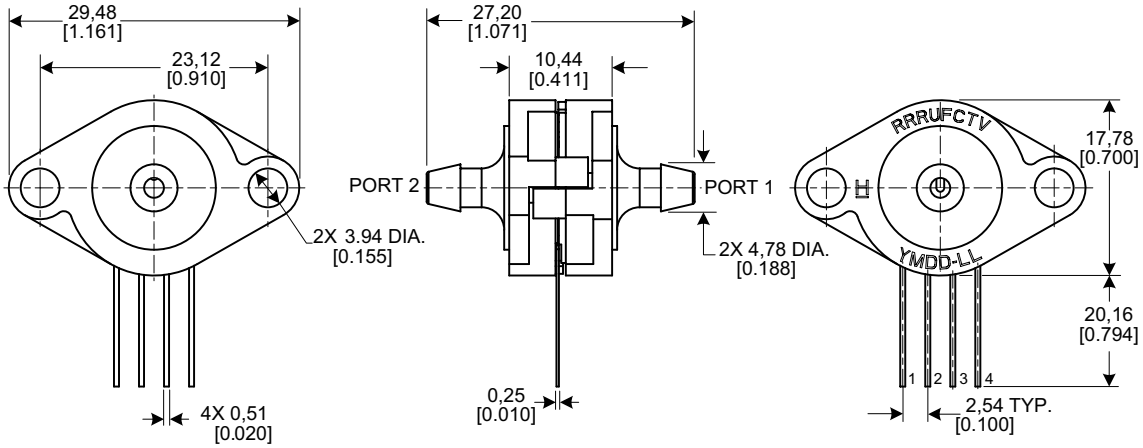
Dimensional Drawings
SIP Packages

Figure 7. 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	



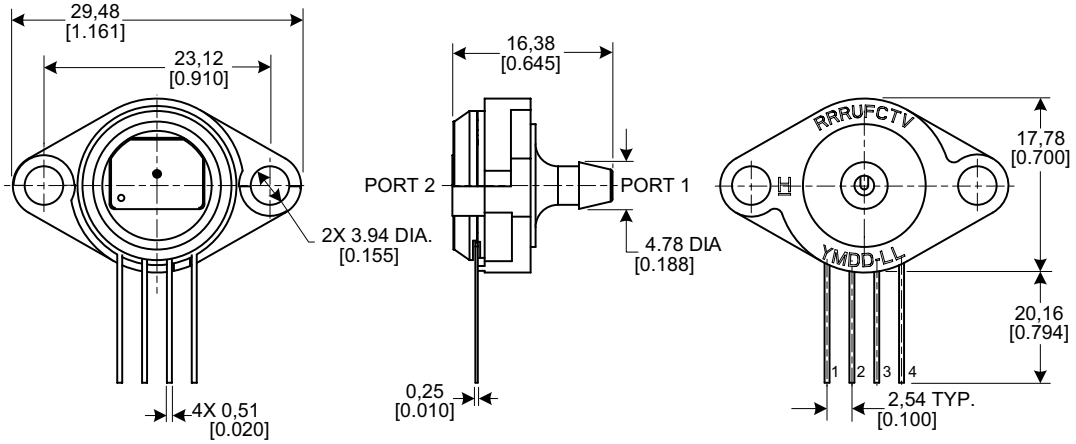




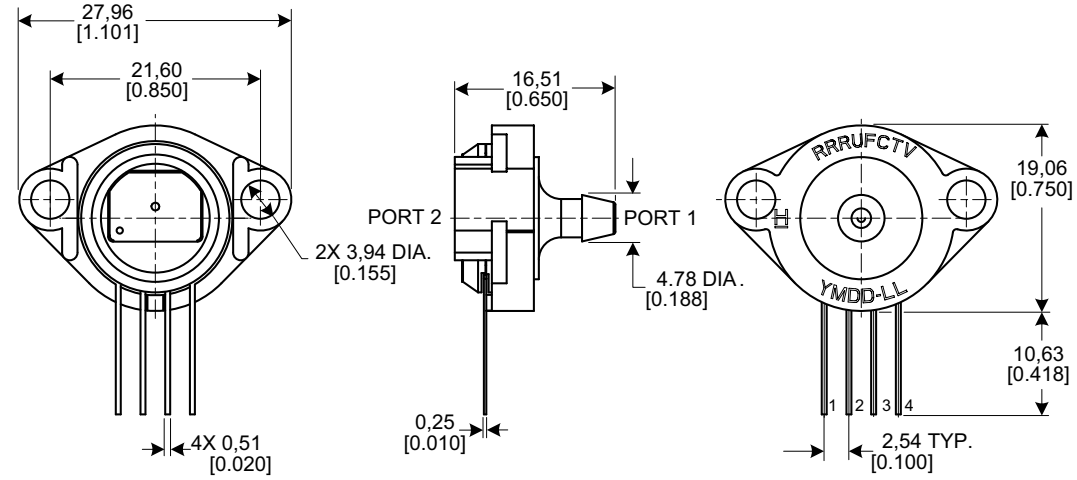
Dimensional Drawings
SIP Packages

Figure 7. 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