

TruStability® Board Mount Pressure Sensors HSC Series Product Nomenclature



For example, **HSCDNNN150PGAA3** defines an HSC 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.

HSC D N N N 150 P G A A 3

Product Series
HSC High 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	AA Dual axial barbed ports, opposite sides	AA Dual axial barbed ports, opposite sides	AA Dual axial barbed ports, opposite sides
AN Single axial barbed port	AN Single axial barbed port	AN Single axial barbed port	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	FF Fastener mount, dual axial barbed ports, opposite sides	FF Fastener mount, dual axial barbed ports, opposite sides
—	—	—	FN Fastener mount, single axial barbed port	FN Fastener mount, single axial barbed port	FN Fastener mount, single axial barbed port
—	—	—	GN Ribbed fastener mount, single axial barbed port	GN Ribbed fastener mount, single axial barbed port	GN Ribbed fastener mount, single axial barbed port
—	—	—	NB Fastener mount, dual axial ports, same side	NB Fastener mount, dual axial ports, same side	NB Fastener mount, dual axial ports, same side
RN Single radial barbed port	RN Single radial barbed port	RN Single radial barbed port	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	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	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	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	HH Fastener mount, dual radial barbed ports, same side	HH Fastener mount, dual radial barbed ports, same side
—	—	—	HN Fastener mount, single radial barbed port	HN Fastener mount, single radial barbed port	HN Fastener mount, single radial barbed port
—	—	—	MN Manifold mount, outer diameter seal	MN Manifold mount, outer diameter seal	MN Manifold mount, outer diameter seal
—	—	—	SN Manifold mount, inner diameter seal	SN Manifold mount, inner diameter seal	SN Manifold mount, inner diameter seal

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							

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

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 the product datasheet, 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 the product datasheet, Table 4.
⁵See the CAUTION in the product datasheet.
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.

TruStability® Board Mount Pressure Sensors SSC Series Product Nomenclature



For example, **SSCDNNN150PGA A 3** defines an SSC Series TruStability® Pressure Sensor, DIP package, NN pressure port, no special options, 150 psi gage pressure range, analog output type, 10% to 90% of Vsupply transfer function, 3.3 Vdc supply voltage.

SSC D N N N 150 P G A A 3

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

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		±160 Pa to ±1 MPa		±0.5 inH ₂ O to ±150 psi	
<i>Absolute</i>		<i>Absolute</i>		<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				
<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				

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

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 the product datasheet, 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 the product datasheet, Table 4.
⁵See the CAUTION in the product datasheet.
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.

TruStability® Board Mount Pressure Sensors

NSC Series Product Nomenclature



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.

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

NSC D NN N 150 PG U N V

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 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>		
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	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	
<i>Gage</i>		
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	004KG 0 kPa to 4 kPa	020NG 0 inH ₂ O to 20 inH ₂ O
040MG 0 mbar to 40 mbar	006KG 0 kPa to 6 kPa	030NG 0 inH ₂ O to 30 inH ₂ O
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		

008259-4-EN
August 2014
Copyright © 2014 Honeywell International Inc. All Rights Reserved.