

# Nomenclature and Order Guide

Figure 4. Nomenclature and Order Guide

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.

**H S C D N N N 1 5 0 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	
<b>NN</b> No ports		<b>NN</b> No ports		<b>NN</b> No ports	
<b>AN</b> Single axial barbed port		<b>AN</b> Single axial barbed port		<b>AN</b> Single axial barbed port	
<b>LN</b> Single axial barbless port		<b>LN</b> Single axial barbless port		<b>LN</b> Single axial barbless port	
—	—	—	—	<b>AA</b> Dual axial barbed ports, opposite sides	
—	—	—	—	<b>AN</b> Single axial barbed port	
—	—	—	—	<b>LN</b> Single axial barbless port	
—	—	—	—	<b>FF</b> Fastener mount, dual axial barbed ports, opposite sides	
—	—	—	—	<b>FN</b> Fastener mount, single axial barbed port	
—	—	—	—	<b>GN</b> Ribbed fastener mount, single axial barbed port	
—	—	—	—	<b>NB</b> Fastener mount, dual axial ports, same side	
<b>RN</b> Single radial barbed port		<b>RN</b> Single radial barbed port		<b>RN</b> Single radial barbed port	
<b>RR</b> Dual radial barbed ports, same side		<b>RR</b> Dual radial barbed ports, same side		<b>RR</b> Dual radial barbed ports, same side	
<b>DR</b> Dual radial barbed ports, opposite sides		<b>DR</b> Dual radial barbed ports, opposite sides		<b>DR</b> Dual radial barbed ports, opposite sides	
<b>JN</b> Single radial barbless port		<b>JN</b> Single radial barbless port		<b>JN</b> Single radial barbless port	
<b>JJ</b> Dual radial barbless ports, same side		<b>JJ</b> Dual radial barbless ports, same side		<b>JJ</b> Dual radial barbless ports, same side	
—	—	—	—	<b>HH</b> Fastener mount, dual radial barbed ports, same side	
—	—	—	—	<b>HN</b> Fastener mount, single radial barbed port	
—	—	—	—	<b>MN</b> Manifold mount, outer diameter seal	
—	—	—	—	<b>SN</b> Manifold mount, inner diameter seal	

**Options<sup>5, 6</sup>**

<b>N</b> Dry gases only, no diagnostics
<b>D</b> Dry gases only, diagnostics on
<b>T</b> Liquid media on Port 1, no diagnostics
<b>V</b> Liquid media on Port 1, diagnostics on

**Supply Voltage**

<b>3</b> 3.3 Vdc
<b>5</b> 5.0 Vdc

**Transfer Function<sup>1</sup>**

<b>A</b> 10% to 90% of Vsupply (analog), 2 <sup>14</sup> counts (digital)
<b>B</b> 5% to 95% of Vsupply (analog), 2 <sup>14</sup> counts (digital)
<b>C</b> 5% to 85% of Vsupply (analog), 2 <sup>14</sup> counts (digital)
<b>F</b> 4% to 94% of Vsupply (analog), 2 <sup>14</sup> counts (digital)

**Output Type<sup>2</sup>**

<b>A</b> Analog	<b>4</b> I <sup>2</sup> C, Address 0x48
<b>S</b> SPI	<b>5</b> I <sup>2</sup> C, Address 0x58
<b>2</b> I <sup>2</sup> C, Address 0x28	<b>6</b> I <sup>2</sup> C, Address 0x68
<b>3</b> I <sup>2</sup> C, Address 0x38	<b>7</b> I <sup>2</sup> C, Address 0x78

**Pressure Range<sup>3, 4</sup>**

±1.6 mbar to ±10 bar		±160 Pa to ±1 MPa		±0.5 inH <sub>2</sub> O to ±150 psi	
<i>Absolute</i>		<i>Absolute</i>		<i>Absolute</i>	
<b>001BA</b> 0 bar to 1 bar	<b>100KA</b> 0 kPa to 100 kPa	<b>015PA</b> 0 psi to 15 psi			
<b>1.6BA</b> 0 bar to 1.6 bar	<b>160KA</b> 0 kPa to 160 kPa	<b>030PA</b> 0 psi to 30 psi			
<b>2.5BA</b> 0 bar to 2.5 bar	<b>250KA</b> 0 kPa to 250 kPa	<b>060PA</b> 0 psi to 60 psi			
<b>004BA</b> 0 bar to 4 bar	<b>400KA</b> 0 kPa to 400 kPa	<b>100PA</b> 0 psi to 100 psi			
<b>006BA</b> 0 bar to 6 bar	<b>600KA</b> 0 kPa to 600 kPa	<b>150PA</b> 0 psi to 150 psi			
<b>010BA</b> 0 bar to 10 bar	<b>001GA</b> 0 kPa to 1 MPa				
<i>Differential</i>		<i>Differential</i>		<i>Differential</i>	
<b>1.6MD</b> ±1.6 mbar	<b>160LD</b> ±160 Pa	<b>0.5ND</b> ±0.5 inH <sub>2</sub> O			
<b>2.5MD</b> ±2.5 mbar	<b>250LD</b> ±250 Pa	<b>001ND</b> ±1 inH <sub>2</sub> O			
<b>004MD</b> ±4 mbar	<b>400LD</b> ±400 Pa	<b>002ND</b> ±2 inH <sub>2</sub> O			
<b>006MD</b> ±6 mbar	<b>600LD</b> ±600 Pa	<b>004ND</b> ±4 inH <sub>2</sub> O			
<b>010MD</b> ±10 mbar	<b>001KD</b> ±1 kPa	<b>005ND</b> ±5 inH <sub>2</sub> O			
<b>016MD</b> ±16 mbar	<b>1.6KD</b> ±1.6 kPa	<b>010ND</b> ±10 inH <sub>2</sub> O			
<b>025MD</b> ±25 mbar	<b>2.5KD</b> ±2.5 kPa	<b>020ND</b> ±20 inH <sub>2</sub> O			
<b>040MD</b> ±40 mbar	<b>004KD</b> ±4 kPa	<b>030ND</b> ±30 inH <sub>2</sub> O			
<b>060MD</b> ±60 mbar	<b>006KD</b> ±6 kPa	<b>001PD</b> ±1 psi			
<b>100MD</b> ±100 mbar	<b>010KD</b> ±10 kPa	<b>005PD</b> ±5 psi			
<b>160MD</b> ±160 mbar	<b>016KD</b> ±16 kPa	<b>015PD</b> ±15 psi			
<b>250MD</b> ±250 mbar	<b>025KD</b> ±25 kPa	<b>030PD</b> ±30 psi			
<b>400MD</b> ±400 mbar	<b>040KD</b> ±40 kPa	<b>060PD</b> ±60 psi			
<b>600MD</b> ±600 mbar	<b>060KD</b> ±60 kPa				
<b>001BD</b> ±1 bar	<b>100KD</b> ±100 kPa				
<b>1.6BD</b> ±1.6 bar	<b>160KD</b> ±160 kPa				
<b>2.5BD</b> ±2.5 bar	<b>250KD</b> ±250 kPa				
<b>004BD</b> ±4 bar	<b>400KD</b> ±400 kPa				
<i>Gage</i>		<i>Gage</i>		<i>Gage</i>	
<b>2.5MG</b> 0 mbar to 2.5 mbar	<b>250LG</b> 0 Pa to 250 Pa	<b>001NG</b> 0 inH <sub>2</sub> O to 1 inH <sub>2</sub> O			
<b>004MG</b> 0 mbar to 4 mbar	<b>400LG</b> 0 Pa to 400 Pa	<b>002NG</b> 0 inH <sub>2</sub> O to 2 inH <sub>2</sub> O			
<b>006MG</b> 0 mbar to 6 mbar	<b>600LG</b> 0 Pa to 600 Pa	<b>004NG</b> 0 inH <sub>2</sub> O to 4 inH <sub>2</sub> O			
<b>010MG</b> 0 mbar to 10 mbar	<b>001KG</b> 0 kPa to 1 kPa	<b>005NG</b> 0 inH <sub>2</sub> O to 5 inH <sub>2</sub> O			
<b>016MG</b> 0 mbar to 16 mbar	<b>1.6KG</b> 0 kPa to 1.6 kPa	<b>010NG</b> 0 inH <sub>2</sub> O to 10 inH <sub>2</sub> O			
<b>025MG</b> 0 mbar to 25 mbar	<b>2.5KG</b> 0 kPa to 2.5 kPa	<b>020NG</b> 0 inH <sub>2</sub> O to 20 inH <sub>2</sub> O			
<b>040MG</b> 0 mbar to 40 mbar	<b>004KG</b> 0 kPa to 4 kPa	<b>030NG</b> 0 inH <sub>2</sub> O to 30 inH <sub>2</sub> O			
<b>060MG</b> 0 mbar to 60 mbar	<b>006KG</b> 0 kPa to 6 kPa	<b>001PG</b> 0 psi to 1 psi			
<b>100MG</b> 0 mbar to 100 mbar	<b>010KG</b> 0 kPa to 10 kPa	<b>005PG</b> 0 psi to 5 psi			
<b>160MG</b> 0 mbar to 160 mbar	<b>016KG</b> 0 kPa to 16 kPa	<b>015PG</b> 0 psi to 15 psi			
<b>250MG</b> 0 mbar to 250 mbar	<b>025KG</b> 0 kPa to 25 kPa	<b>030PG</b> 0 psi to 30 psi			
<b>400MG</b> 0 mbar to 400 mbar	<b>040KG</b> 0 kPa to 40 kPa	<b>060PG</b> 0 psi to 60 psi			
<b>600MG</b> 0 mbar to 600 mbar	<b>060KG</b> 0 kPa to 60 kPa	<b>100PG</b> 0 psi to 100 psi			
<b>001BG</b> 0 bar to 1 bar	<b>100KG</b> 0 kPa to 100 kPa	<b>150PG</b> 0 psi to 150 psi			
<b>1.6BG</b> 0 bar to 1.6 bar	<b>160KG</b> 0 kPa to 160 kPa				
<b>2.5BG</b> 0 bar to 2.5 bar	<b>250KG</b> 0 kPa to 250 kPa				
<b>004BG</b> 0 bar to 4 bar	<b>400KG</b> 0 kPa to 400 kPa				
<b>006BG</b> 0 bar to 6 bar	<b>600KG</b> 0 kPa to 600 kPa				
<b>010BG</b> 0 bar to 10 bar	<b>001GG</b> 0 kPa to 1 MPa				

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

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

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

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

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

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