

# Basic Board Mount Pressure Sensors

## ABP Series—High Accuracy

### Digital or Analog Output, Compensated/Amplified



For example, **ABPDNNN150PGAA3** defines an ABP Series Amplified Basic Pressure Sensor, DIP package, NN pressure port, dry gases only, no diagnostics, 150 psi gage pressure range, analog output type, 10% to 90% of Vsupply (analog), 2<sup>14</sup> counts (digital) transfer function, no temperature output, no sleep mode, 3.3 Vdc supply voltage.

Product Series		Supply Voltage	
<b>ABP</b> Amplified Basic		<b>3</b> 3.3 Vdc	<b>5</b> 5.0 Vdc
Package		Transfer Function <sup>1</sup>	
<b>D</b> DIP (Dual Inline Pin)		<b>A</b> 10% to 90% of Vsupply (analog), 2 <sup>14</sup> counts (digital) no temperature output, no sleep mode	
<b>M</b> SMT (Surface Mount Technology)		<b>D</b> 10% to 90% of 2 <sup>14</sup> counts (digital only) temperature output enabled, sleep mode enabled	
<b>L</b> Leadless SMT		<b>S</b> 10% to 90% of 2 <sup>14</sup> counts (digital only) no temperature output, sleep mode enabled	
		<b>T</b> 10% to 90% of 2 <sup>14</sup> counts (digital only) temperature output enabled, no sleep mode	
Pressure Port		Output Type	
<b>DIP</b>	<b>SMT</b>	<b>A</b> Analog	<b>4</b> I <sup>2</sup> C, Address 0x48
<b>Leadless SMT</b>		<b>S</b> SPI	<b>5</b> I <sup>2</sup> C, Address 0x58
<b>NN</b> No port	<b>NN</b> No port	<b>0</b> I <sup>2</sup> C, Address 0x08	<b>6</b> I <sup>2</sup> C, Address 0x68
<b>AN</b> Single axial barbed port	<b>AN</b> Single axial barbed port	<b>1</b> I <sup>2</sup> C, Address 0x18	<b>7</b> I <sup>2</sup> C, Address 0x78
<b>LN</b> Single axial barbless port	<b>LN</b> Single axial barbless port	<b>2</b> I <sup>2</sup> C, Address 0x28	<b>8</b> I <sup>2</sup> C, Address 0x88
<b>JN</b> Single radial barbless port	<b>JN</b> Single radial barbless port	<b>3</b> I <sup>2</sup> C, Address 0x38	<b>9</b> I <sup>2</sup> C, Address 0x98
<b>JJ</b> Dual radial barbless ports, same side	<b>JJ</b> Dual radial barbless ports, same side		
<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		
Option			
<b>N</b> Dry gases only, no diagnostics			
<b>D</b> Dry gases only, diagnostics on			
<b>T</b> Silicone gel coating, no diagnostics			
<b>V</b> Silicone gel coating, diagnostics on			

  

Pressure Range <sup>2, 3</sup>		
60 mbar to 10 bar <i>Differential</i>	6 kPa to 1 MPa <i>Differential</i>	1 psi to 150 psi <i>Differential</i>
<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>		
<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 bar to 400 mbar	<b>040KG</b> 0 kPa to 40 kPa	<b>060PG</b> 0 psi to 60 psi
<b>600MG</b> 0 bar 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>010GG</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 of the product datasheet.

<sup>2</sup> Custom pressure ranges are available. Contact Honeywell Customer Service for more information.

<sup>3</sup> See the explanation of sensor pressure types in Table 4 of the product datasheet.

#### COMMON CATALOG LISTINGS

ABPLLND060MGAA3	ABPMAND001PG2A3
ABPLLNN600MGAA3	ABPLANN001PG2A5
ABPMANN005PGAA3	ABPDANT005PGAA5
ABPMANN004BGAA5	ABPDANT015PGAA5
ABPMLNN001PGAA3	ABPLLNT010BGAA5
ABPMANN030PG2A3	ABPDJTT001PGAA5
ABPDLNN100MG2A3	ABPDRRT005PG2A5
ABPDANN005PG2A3	ABPMJTT015PGAA5