

# ABP2 SERIES BASIC BOARD MOUNT PRESSURE SENSORS

The calibrated/compensated ABP2 Series offers different configurations to choose the right sensor, with the right performance, at the right price, for your application.

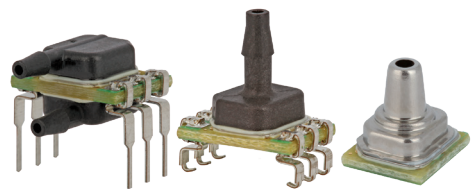
INDUSTRY	POTENTIAL APPLICATION
Medical	CPAP, blood analysis, blood pressure monitoring, breast pumps, drug dosing, hospital beds, massage machines, oxygen concentrators, patient monitoring, sleep apnea equipment, urine analyzers, ventilators/portable ventilators, wound therapy
Industrial	HVAC transmitters, life sciences, material handling, pneumatic control and regulation, process gas monitoring, valve positioning/positioners
Commercial	air beds, coffee makers, washing machines, level measurement, dish washers, vacuum cleaners, hand dryers, rice cookers
Transportation	air brakes, CNG monitoring, fork lifts, fuel level measurement

SPECIFICATIONS	
CHARACTERISTIC	PARAMETER
Pressure range	±2 inH <sub>2</sub> O to ±4 bar   4 inH <sub>2</sub> O <sub>G</sub> to 12 bar <sub>G</sub>   1 bar <sub>A</sub> to 12 bar <sub>A</sub>
Operating temperature range	-40°C to 110°C
Total Error Band by compensated temperature range	±1.5 %FSS: 0°C to 50°C ±3.0 %FSS: -20°C to 85°C ±4.5 %FSS: -40°C to 110°C
Accuracy	±0.25 %FSS BFSL
Output	3.3 V and 5 V (analog output) 1.8 V to 3.6 V (digital output)
Supply voltage	1.8 Vdc (digital only) 3.3 Vdc or 5.0 Vdc (analog and digital)
Power consumption	as low as 0.01 mW typ.
Proof pressure	up to 16 bar   240 psi
Burst pressure	up to 25 bar   375 psi
Vibration	15 G sweep, 10 Hz to 2000 Hz
Shock	75 G, 6 ms duration

## FEATURES

- Wide operating pressure ranges
- Extended operating and compensated temperature ranges
- Low Total Error Band
- Industry-leading accuracy
- Ultra-low power consumption
- High burst pressures
- Variety of pressure ports
- Food grade compatible
- Harsh media compatible with flourosilicone gel
- Meets IPC/JEDEC J-STD-020E-MSL 1
- NSF-169, LFGB, and BPA compliant materials
- RoHS and REACH compliant materials
- Suitable for portable IoT applications

ABP2 Series



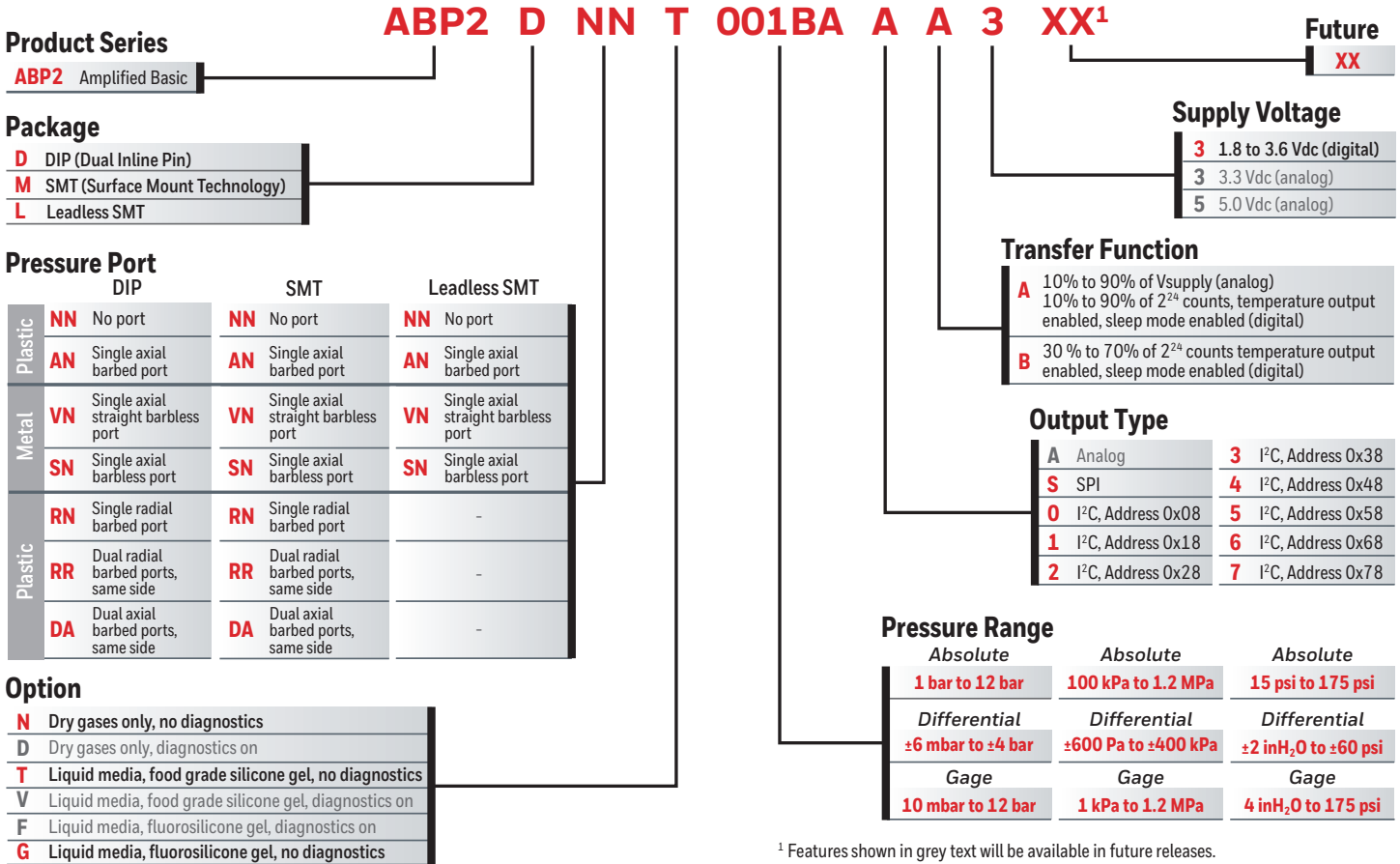
## NOTICE

This is a Sneak Peek of a new product that is scheduled to be introduced to general sales in Q2 2020. This document contains preliminary specifications that are subject to change. To obtain a product sample, please contact the Global Product Manager at [vishal.shah@honeywell.com](mailto:vishal.shah@honeywell.com), +91-9011495648.

**Honeywell**

# ABP2 SERIES BASIC BOARD MOUNT PRESSURE SENSORS

## PRODUCT NOMENCLATURE



**⚠ 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 document 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.**

**NOTICE: EVALUATION PRODUCTS**

THESE PRODUCTS ARE PROTOTYPE PRE-PRODUCTION ITEMS THAT HAVE YET TO COMPLETE ALL PHASES OR PRODUCT RELEASE TESTINGS AND ARE FOR CUSTOMER EVALUATION ONLY. THESE ITEMS ARE SOLD "AS IS" WITHOUT WARRANTY EXPRESSED OR IMPLIED, INCLUDING THAT OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT WILL HONEYWELL BE LIABLE FOR ANY CONSEQUENTIAL, SPECIAL, OR DIRECT DAMAGES.

**PRELIMINARY**

This publication does not constitute a contract between Honeywell and its customers. The contents may be changed at any time without notice. It is the customer's responsibility to ensure safe installation and operation of the products. Detailed mounting drawings of all products illustrated are available upon request.

**Honeywell**  
**Advanced Sensing Technologies**  
 830 East Arapaho Road  
 Richardson, TX 75081  
 sps.honeywell.com/ast

008344-5-EN | 5 | 5/21  
 © 2021 Honeywell International Inc.

**THE  
 FUTURE  
 IS  
 WHAT  
 WE  
 MAKE IT**

**Honeywell**