Honeywell



Heavy Duty Pressure Transducers

PX2 Series

1 bar to 46 bar | 100 kPa to 4.6 MPa | 15 psi to 667 psi

Datasheet

Heavy Duty Pressure Transducers

Honeywell's PX2 Series Heavy Duty Pressure Transducer is a portfolio of highly configurable pressure sensors that use piezoresistive sensing technology with ASIC (Application Specific Integrated Circuit) signal conditioning in a stainless steel housing. The PX2 Series is fully calibrated and compensated for offset, sensitivity, temperature effects and non-linearity using the on-board ASIC. This provides a Total Error Band of ±2% over the operating temperature range of -40 ºC to 125 ºC [-40 °F to 257 °F].

With thousands of possible configurations, the PX2 Series allows Honeywell to meet customer requirements and quickly provide samples. New standard configurations are regularly being added.

The PX2 Series is compatible with a variety of harsh media including brake fluid, refrigerants, engine oil, tap water, hydraulic fluids, and compressed air. The wide operating temperature range, ingress protection up to IP69K, and 100 V/m radiated immunity allow for reliable performance in tough environments.

These transducers measure absolute or sealed gage pressure. The absolute versions have an internal vacuum reference and an output value proportional to absolute pressure. The sealed gage versions have an internal pressure reference of one atmosphere at sea level.

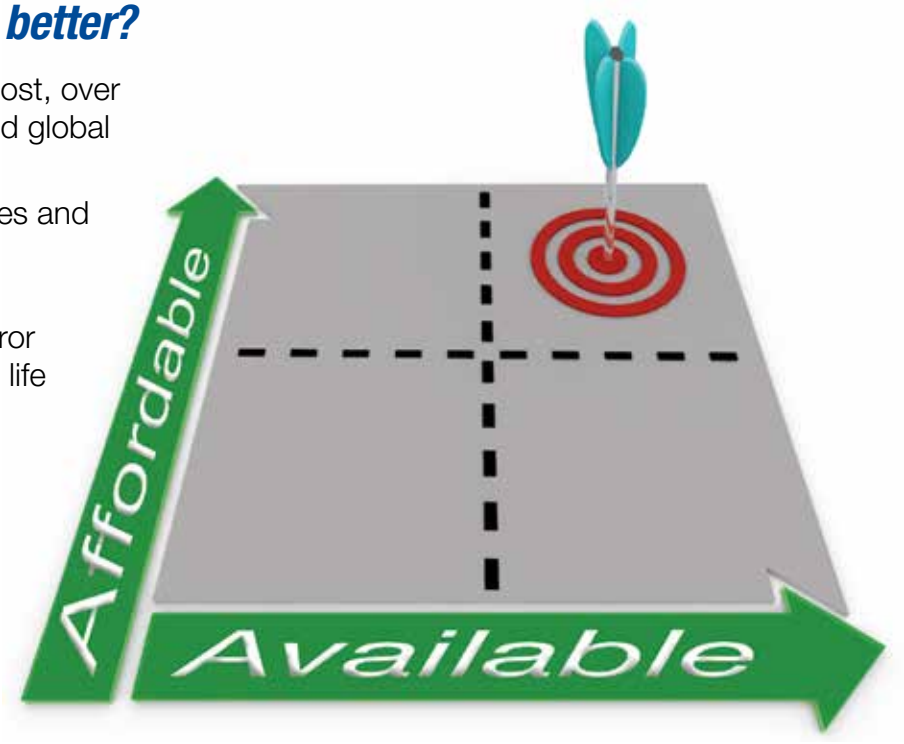
The PX2 Series is available in three pressure ranges, with additional pressure ranges coming soon.

- 1 bar to 46 bar
- 100 kPa to 4.6 MPa
- 15 psi to 667 psi

All products are RoHS compliant and are designed and manufactured according to ISO 9001 standards.

What makes our transducers better?

- **Affordable:** Competitive product cost, over 15,000 standard configurations, and global application support
- **Available:** Wide selection of features and a short lead time for samples and production parts
- **High performance:** Small Total Error Band, fast response time, and long life
- **High durability:** Environmentally tough, wide operating temperature range, and ability to withstand mechanical shock and vibration



Count on affordability and availability with these high performing, durable transducers.

AFFORDABLE • AVAILABLE • HIGH PERFORMANCE

Features and Benefits

Affordability minimizes your cost to produce.

COST EFFECTIVE*

The PX2 Series is a precise pressure measurement solution that optimizes system performance at a competitive cost.

DESIGNED FOR CONFIGURABILITY*

With over 15,000 standard configurations, the PX2 Series easily meets our customers' specific application needs.

APPLICATION EXPERTISE*

Knowledgeable application engineers are available to answer customers' specific design questions during the development of their product.

GLOBAL SUPPORT

Honeywell's global presence offers customers immediate product and application support throughout the development cycle, from design to global manufacturing.

Available feature-rich and fast.

WIDE SELECTION OF OPTIONS

Numerous standard or custom connectors, ports, pressure ranges and types, and output options include:

- Connector types: Delphi Metri-Pack 150, Micro M12, DIN, Deutsch, cable harness (1 m, 2 m, 3 m, or 5 m).
- Port types: 1/4-18 NPT, 1/8-27 NPT, 9/16-18 UNF SAE J1926-3, 7/16-20 UNF SAE J1926-3, 1/4 in 45° Flare Female Schrader (7/16-20 SAE J512), M12 x 1.5 ISO 6149-3, G1/4 ISO 1179-3, G1/8 ISO 1179-3.
- Pressure range: 1 bar to 46 bar | 100 kPa to 4.6 MPa | 15 psi to 667 psi.
- Pressure reference: Absolute or sealed gage.
- Output transfer function: Ratiometric, regulated or current.

SHORT LEAD TIME

Due to the PX2 Series' configurability, customers can count on a quick response to prototypes. Additionally, dedicated teams and manufacturing processes ensure that product samples are shipped quickly to support your demanding product development cycle.

*Competitive Differentiator

Features and Benefits

Dependable, consistent performance.

SMALL TOTAL ERROR BAND (TEB)

Honeywell specifies TEB, the most comprehensive, clear, and meaningful measurement that provides the transducer's true accuracy over a compensated temperature range of -40 °C to 125 °C [-40 °F to 257 °F] (see Figure 1).

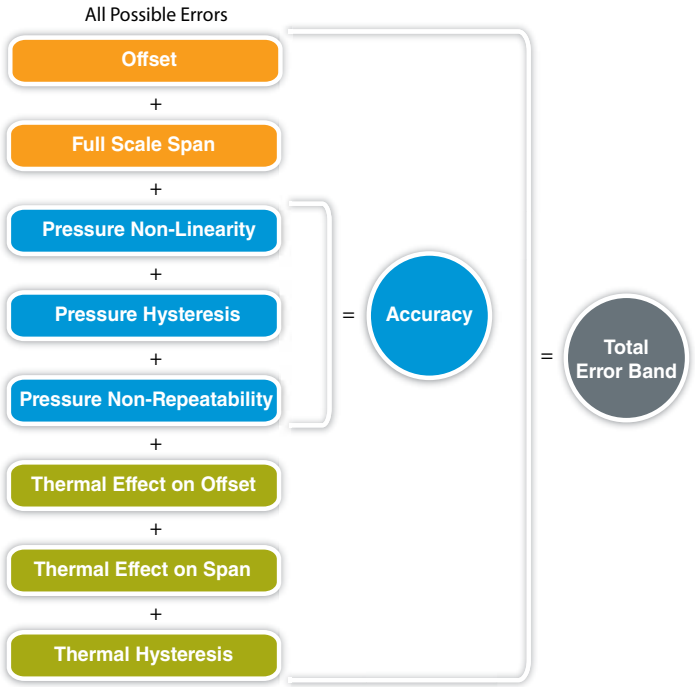


Figure 1: TEB For the PX2 Series

The PX2 Series' industry-leading TEB of ±2%:

- Provides excellent transducer interchangeability due to minimal part-to-part variation in accuracy.
- Eliminates the customers' need for individual transducer testing and calibration.
- Supports system accuracy and warranty requirements.

FAST RESPONSE TIME

A fast response time of <2 ms helps maximize system performance.

LONG LIFE

A minimum 10 million cycles to operating pressure provides long life in the application.

Features and Benefits

ENERGY EFFICIENT*

AC and AD output transfer functions offer a 3.3 V ratiometric output with a <7 ms turn on time, enabling the PX2 Series to be used when energy efficiency is a key requirement.

SIX SIGMA DESIGN STANDARDS*

Results in the highest level of quality, performance, and consistency so that customers are assured that the transducer will perform to specification.

Durability improves output and endurance.

ENVIRONMENTALLY TOUGH

Compatibility with a wide variety of harsh media, up to IP69K ingress protection, and 100 V/m radiated immunity allow for use in tough environments.

WIDE OPERATING TEMPERATURE RANGE

A compensated operating temperature range of -40 °C to 125 °C [-40 °F to 257 °F] allows customers to design the same sensor into a variety of applications.

SHOCK AND VIBRATION RESISTANT

A mechanical shock rating of 100 G per MIL-STD-202F, Method 213B, Cond. F, and a vibration rating of 20 G sweep, 10 Hz to 2000 Hz, increase flexibility of use within the application.

GOOD EMC PROTECTION

Provides confidence that the transducer will not be damaged by environmental electromagnetic interference. Radiated immunity protection up to 100 V/m (ISO 11452-2) is available.

*Competitive Differentiator

Potential Applications





INDUSTRIAL

HVAC/R

May be used to monitor system performance for proper environmental control of:

- Compressor inlet and outlet pressure
- Rooftop chillers
- Compressor rack rooms
- Refrigerant recovery systems
- Compressor oil pressure

AIR COMPRESSORS

May be used to monitor compressor performance and efficiency, specifically:

- Compressor inlet and outlet pressure
- Cooling water inlet and outlet pressure
- Compressor oil pressure
- Filter pressure drop

GENERAL

May be used to monitor:

- Emissions monitoring
- Factory automation
- Flow and level
- Fluid power
- Foam dispensing
- Injection molding knock-out valves
- Lasers
- Laminating equipment
- Packaging equipment
- Pneumatics
- Pumps
- Solar energy
- Sprayers
- System pressure
- Valves

Heavy Duty Pressure Transducers

Table 1. Electrical Specifications

Characteristic	Ratiometric Output				Current Output	Regulated Output			
	Output Transfer Function Order Code (See Figure 5.)								
	AA	AB	AC	AD	CH	BC	BD	BE	BG
Output transfer function[1]:									
null output value	10% of Vs	5% of Vs	10% of Vs	5%of Vs	4 mA	1 V	0.25 V	0.5 V	1 V
full scale output value	90% of Vs	95% of Vs	90% of Vs	95% of Vs	4 mA	6 V	10.25 V	4.5 V	5 V
full scale span (FSS)	80% of Vs	90% of Vs	80% of Vs	90% of Vs	16 mA	5 V	10 V	4 V	4 V
operating supply voltage, min.(Vs)[2]	4.75 V	4.5 V	3.135 V	3.135 V	8 V	9 V	13 V	8 V	8 V
operating supply voltage, typ. (Vs)[2]	5 V	5 V	3.3 V	3.3 V	—	—	—	—	—
operating supply voltage, max. (Vs)[2]	5.25 V	5.5 V	3.465 V	3.465 V	30 V[4]	30 V[3]	30 V[3]	30 V[3]	30 V[3]
Supply current (typ.)	5 mA		4 mA		—	5.5 mA			
Output load (pull up or down)									
minimum	2 kOhm				—	2 kOhm			
maximum	—				(Vs - 8) x 50 Ohm[4]	—			
Absolute voltage ratings[5]:									
minimum[6]	-16 V				-16 V	-16 V			
maximum[6]	16 V				30 V	30 V			
maximum applied to output pin	Vs				—	12 V			
EMC rating — CE compliance[7]:									
electrostatic discharge	±4 kV contact, ±8 kV air per IEC 61000-4-2								
radiated immunity	10 V/m (80 MHz to 1000 MHz) per IEC 61000-4-3								
fast transient burst	±1 kV per IEC61000-4-4								
immunity to conducted disturbances	3 V per IEC61000-4-6								
radiated emissions	40 dB 30 MHz to 230 MHz; 47 dB 230 MHz to 1000 MHz per CISPR 11								
EMC rating – ISO 11452-2[7]:									
radiated immunity	100 V/m 200 MHz to 2 GHz					20 V/m 200 MHz to 2 GHz			

[1]Output transfer function options are shown in the Nomenclature and Order Guide. (See Figure 5.)

[2]Transducer will not produce valid output when supply voltage is outside of operating range.

[3]Applies at 25 °C. See Figure 2 for Regulated Output Supply Voltage.

[4]Applies at 25 °C. See Figure 3 for Current Output Supply Voltage.

[5]Absolute maximum ratings are the extreme limits the device can withstand without damage to the product. Voltages above these ratings may cause permanent damage. Exposure to absolute maximum conditions for extended periods may degrade device reliability.

[6]Absolute voltage applies to potential across power and ground terminals.

[7]All EMC ratings verified with the Delphi Metri-Pack 150 connector type.

Figure 2. Regulated Output Supply Voltage

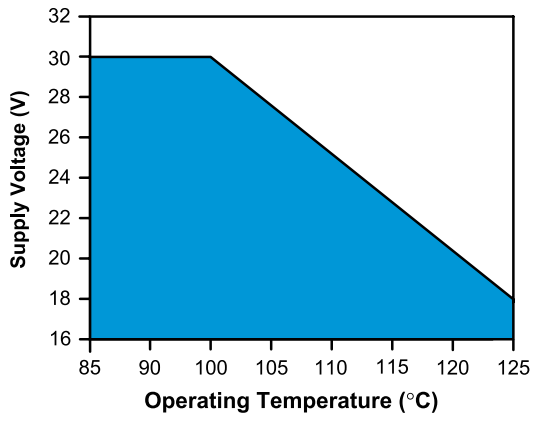


Figure 3. Current Output Supply Voltage

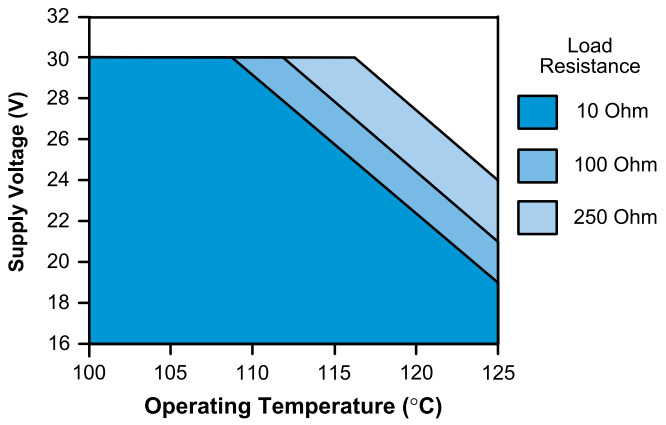
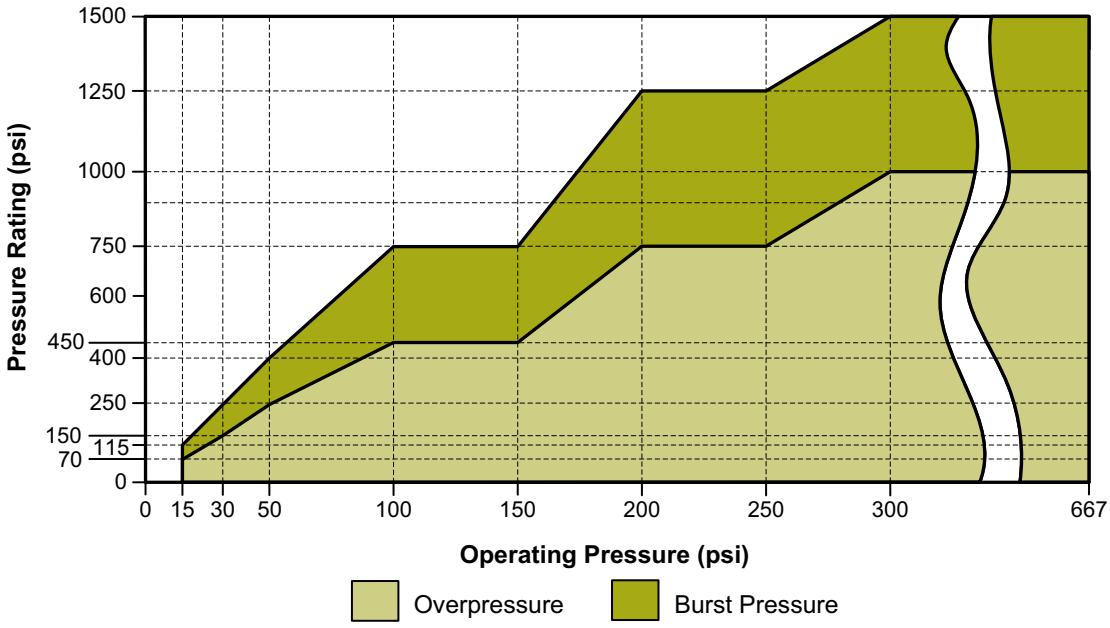


Figure 4. Pressure Rating Curve



Heavy Duty Pressure Transducers

Table 2. Performance Specifications[1]

Characteristic	Parameter
Operating temperature range[2]	-40 °C to 125 °C [-40 °F to 257 °F]
Storage temperature range[3]	-40 °C to 125 °C [-40 °F to 257 °F]
Compensated temperature range[4]	-40 °C to 125 °C [-40 °F to 257 °F]
Overpressure minimum rating[5]	(See Figure 4.)
Burst pressure minimum rating[6]	(See Figure 4.)
Long term stability	±0.5 %FSS[9] (1000 hr at 25 °C [77 °F])
Accuracy[7]	±0.25 %FSS[9] (See Figure 1.)
Offset error[8]	±1 %FSS[9]
Total Error Band[10]	±2 %FSS[9] (-40 °C to 125 °C [-40°F to 257 °F]) (See Figure 1.)
Response time[11]	<2 ms
Turn on time[12]	<7 ms
Life[13]	min. of 10 million cycles to operating pressure

[1]All specifications apply at 25 °C and under operating conditions unless otherwise noted.

[2]Operating Temperature Range: The temperature range over which the product will produce an output proportional to pressure but may not remain within the specified performance limits.

[3]Storage Temperature Range: The temperature range over which the product may safely be exposed without excitation or pressure applied. Under these conditions the product will remain in specification after excursion to any temperatures within this range. Exposure to temperatures outside this range may cause permanent damage to the product.

[4]Compensated Temperature Range: The temperature range (or ranges) over which the product will produce an output proportional to pressure within the specified performance limits.

[5]Overpressure: The absolute maximum rating for pressure which may be safely applied to the product for it to remain in specification once pressure is returned to the operating pressure range. Exposure to higher pressure may cause permanent damage to the product.

[6]Burst Pressure: The maximum pressure that may be applied to the product without causing escape of the pressure media. The product should not be expected to function after exposure to any pressure beyond the rated burst pressure. This rating is also the case burst rating of the product.

[7]Accuracy: The maximum deviation in output from a Best Fit Straight Line (BFSL) fitted to the output measured over the pressure range at 25 °C. Includes all errors due to pressure non-linearity, pressure hysteresis, and non-repeatability.

[8]Offset Error: the maximum deviation in the output signal obtained when the reference pressure is applied at 25 °C relative to the ideal transfer function.

[9]Full Scale Span (FSS): The algebraic difference between the output signal measured at the maximum (Pmax.) and minimum (Pmin.) limits of the pressure range.

[10]Total Error Band: The maximum deviation from the ideal transfer function over the entire compensated temperature and pressure range. Includes all errors due to offset, full scale span, pressure non-linearity, pressure hysteresis, repeatability, thermal effect on offset, thermal effect on span, and thermal hysteresis.

[11]Response Time: The response time of the transducer is the maximum amount of time that the transducer will take for the transducer to output a change from 10% to 90% of full scale in response to a 0% to 100% full scale step input pressure range.

[12]Turn On Time: Duration from power applied until first valid output.

[13]Life may vary depending on the application in which transducer is used. Contact Honeywell Sales and Service for Mean Time to Failure (MTTF) data based on customer-specific usage profile.

Table 3. Pressure Types

Pressure Reference	Description
Absolute	Output is proportional to the difference between applied pressure and a built-in fixed reference to vacuum (zero pressure), where the minimum operating pressure is set to absolute zero pressure (perfect vacuum)
Sealed Gage[1]	Output is proportional to the difference between applied pressure and a built-in fixed reference to 1 atmsA, where the minimum operating pressure is set to 14.7 psiA (1 atmsA)

[1]Sealed gage option only available in pressure ranges at or above 100 psi.

Table 4. Mechanical Characteristics

Characteristic	Parameter
Mechanical shock	100 G per MIL-STD-202F, Method 213B, Cond. F (at 25 °C)
Vibration	20 G sweep, 10 Hz to 2000 Hz (at 25 °C)
Enclosure rating	per electrical connector selection (See Figure 7.)
Wetted materials: port substrate adhesives electronics	 304 stainless steel alumina ceramic epoxy glass, silicon
External materials: housing connector cable jacket	 304 stainless steel PBT 30% GF TPE
Installation torque	per port type (See Figure 8.)

Heavy Duty Pressure Transducers

Figure 5. Nomenclature and Order Guide[1]

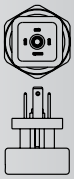
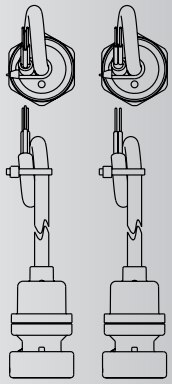
For example, **PX2AN1XX150PABDX** defines a PX2 Series Heavy Duty Pressure Transducer, Delphi Metri-Pack 150 connector type, 1/4-18 NPT port type, 150 psi pressure range, absolute pressure reference, regulated, 0.25 Vdc to 10.25 Vdc output transfer function.

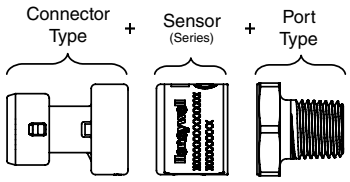
PX2 A N1 XX 150P A BD X

Series

PX2	Heavy Duty Pressure Transducer[1]

Connector Type

A	Delphi Metri-Pack 150[2]	
B	Micro M12 IEC 61076-2	
C	DIN EN 175301-803C	
D	Deutsch DTM04-3P	
E	Cable harness, 1 meter[3]	 (three-wire) (two-wire)
F	Cable harness, 2 meter[3]	
G	Cable harness, 3 meter[3, 4]	
H	Cable harness, 5 meter[3, 4]	



Output Transfer Function

AA	Ratiometric 5.0 V, 10 %Vs to 90 %Vs
AB	Ratiometric 5.0 V, 5 %Vs to 95 %Vs
AC	Ratiometric 3.3 V, 10 %Vs to 90 %Vs
AD	Ratiometric 3.3 V, 5 %Vs to 95 %Vs
BC	Regulated, 1 Vdc to 6 Vdc
BD	Regulated, 0.25 Vdc to 10.25 Vdc
BE	Regulated, 0.5 Vdc to 4.5 Vdc
BG	Regulated, 1 Vdc to 5 Vdc
CH	Current, 4 mA to 20 mA

Pressure Reference

A	Absolute
S	Sealed gage[5]

Pressure Range

bar	*Pa*	*psi*
001B 1 bar	**100K** 100 kPa	**015P** 015 psi
1.6B 1.6 bar	**160K** 160 kPa	**030P** 030 psi
002B 2 bar	**250K** 250 kPa	**050P** 050 psi
2.5B 2.5 bar	**400K** 400 kPa	**100P** 100 psi
004B 4 bar	**600K** 600 kPa	**150P** 150 psi
006B 6 bar	**001G** 1 MPa	**200P** 200 psi
008B 8 bar	**1.6G** 1.6 MPa	**250P** 250 psi
010B 10 bar	**2.5G** 2.5 MPa	**300P** 300 psi
016B 16 bar	**004G** 4 MPa	**500P** 500 psi
025B 25 bar	**4.6G** 4.6 MPa	**600P** 600 psi
040B 40 bar		**667P** 667 psi
046B 46 bar		

Port Type

N1	1/4-18 NPT	**F1**	1/4 in 45º Flare Female Schrader (7/16-20 SAE J512)
N2	1/8-27 NPT	**M1**	M12 x 1.5 ISO 6149-3
S1	9/16-18 UNF SAE J1926-3	**G1**	G1/4 ISO 1179-3
S2	7/16-20 UNF SAE J1926-3	**G2**	G1/8 ISO 1179-3

[1]Not all catalog listing combinations are available. Custom products are available. Please contact Honeywell.
[2]Mating connectors available from Honeywell are 3685301 (1 m cable length) and 3685302 (3 m cable length).
[3]Three-wire cable is required for ratiometric and regulated outputs; two-wire cable is required for current output.
[4]Three meter and five meter cables are only available with Output Transfer Function CH = Current, 4 mA to 20 mA.
[5]Sealed gage option only available in pressure ranges at or above 100 psi.

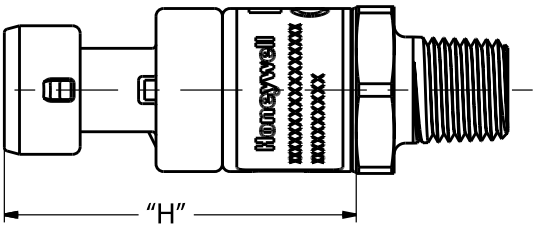
PX2 Series

Figure 6. All Available Standard External Configurations

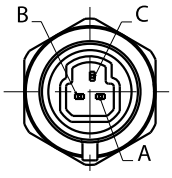
Connector Type	Port Type							
	1/4-18 NPT	1/8-27 NPT	9/16-18 UNF SAE J1926-3	7/16-20 UNF SAE J1926-3	1/4 in 45° Flare Female Schrader (7/16-20 SAE J512)	M12 X 1.5 ISO 6149-3	G1/4 ISO 1179-3	G1/8 ISO 1179-3
Delphi Metri-Pack 150								
Micro M12 IEC 61076-2								
DIN EN 175301-803C								
Deutsch DTM04-3P								
Cable Harness: 1 Meter 2 Meter 3 Meter 5 Meter								

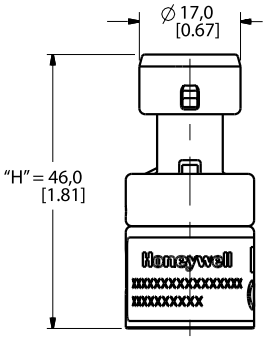
Heavy Duty Pressure Transducers

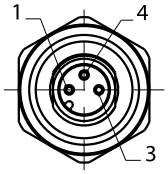
Figure 7. Connector Dimensions (For reference only: mm/[in].)

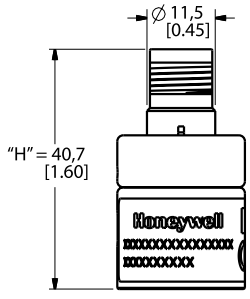


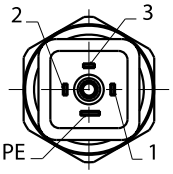
A = Delphi Metri-Pack 150			B = Micro M12 IEC 61076-2			C= DIN EN 175301-803C		
Connector: DELPHI 12078088 **Mating Connector:** DELPHI 12110192 **IP Rating[1]:** IP65			**Connector:** IEC 61076-2-101 **Mating Connector:** 4 POS TYPE D **IP Rating[1]:** IP65/IP67			**Connector:** EN 175301-803C **Mating Connector:** EN 175301-803C DIN 43650C 8MM **IP Rating[1]:** IP65		
Pin	**Voltage Output**	**Current Output**	**Pin**	**Voltage Output**	**Current Output**	**Pin**	**Voltage Output**	**Current Output**
A	GND	RTN	1	V+	supply	1	GND	RTN
B	V+	supply	3	GND	RTN	2	V+	supply
C	Vout	NC	4	Vout	NC	3	Vout	NC
						PE	NC	NC

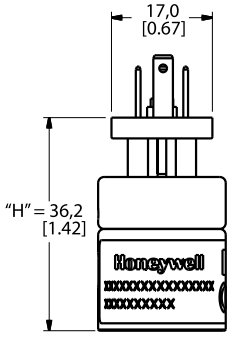






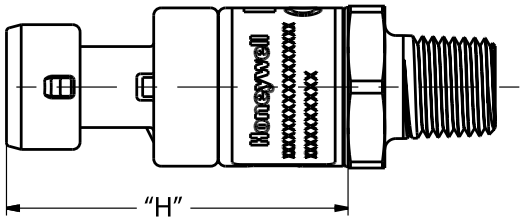






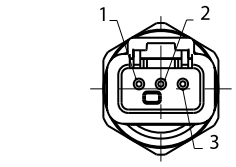
[1]IP rating is determined by the electrical connection chosen.

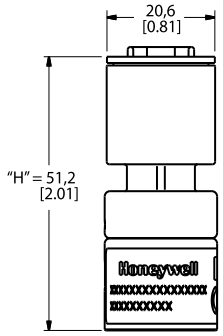
Figure 7. Connector Dimensions, Continued (For reference only: mm/[in].)

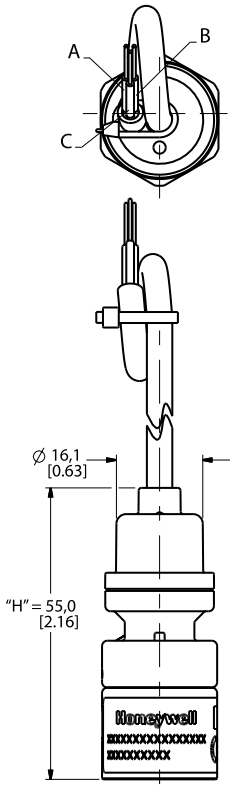


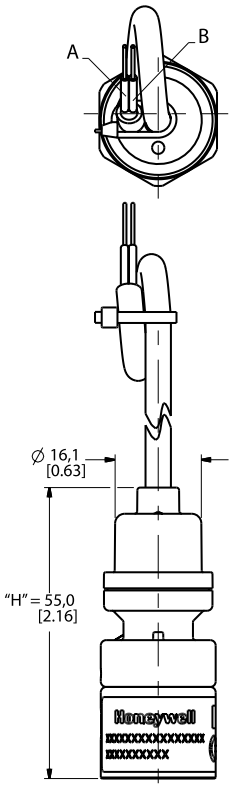
D = Deutsch DTM04-3P	E = Cable Harness, 1 Meter[2] F = Cable Harness, 2 Meter[2] G = Cable Harness, 3 Meter[2, 3] H = Cable Harness, 5 Meter[2, 3]
Connector: Deutsch DTM04-3P **Mating Connector:** DTM06-3S **IP Rating[1]:** IP65, IP67, IP69K	**Connector:** 24 AWG with TPE Jacket **Mating Connector:** Flying leads **IP Rating[1]:** IP65, IP67, IP69K

Pin	Voltage Output	Current Output	Wire Color	Voltage Output	Wire Color	Current Output
1	GND	RTN	red	V+	red	supply
2	Vout	NC	black	GND	black	RTN
3	V+	supply	white	Vout		









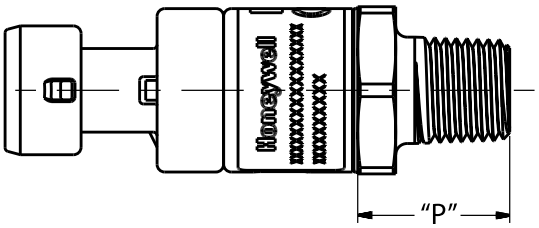
[1]IP rating is determined by the electrical connection chosen.

[2]Three-wire cable is required for ratiometric and regulated outputs; two wire cable is required for current output.

[3]Three meter and five meter cables are only available with Output Transfer Function **CH** = Current, 4 mA to 20 mA.

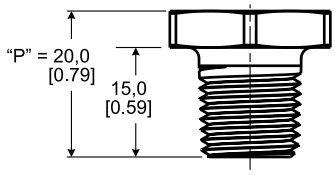
Heavy Duty Pressure Transducers

Figure 8. Port Dimensions (For reference only: mm/[in].)



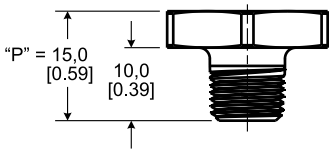
N1 = 1/4–18 NPT

Seal: pipe thread
Mating Geometry: ANSI B1.20.1
Installation Torque[1]: 2 to 3 Turns From Finger Tight



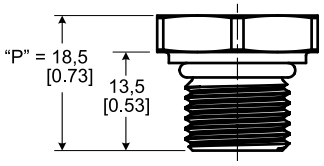
N2 = 1/8–27 NPT

Seal: pipe thread
Mating Geometry: ANSI B1.20.1
Installation Torque[1]: 2 to 3 Turns From Finger Tight



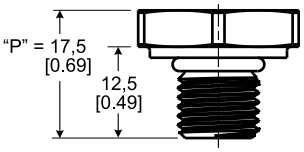
S1 = 9/16–18 UNF SAE J1926-3

Seal[2,3]: O-ring
Mating Geometry: SAE J1926-1
Installation Torque[1]: 30 N m [22.1 ft lb]



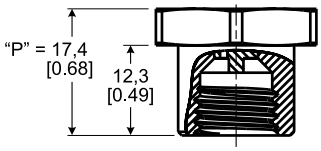
S2 = 7/16–20 UNF SAE J1926-3

Seal[2,3]: O-ring
Mating Geometry: SAE J1926-1
Installation Torque[1]: 18 N m [12.3 ft lb]



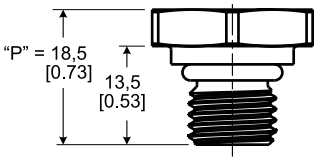
F1 = 1/4 in 45° Flare Female Schrader (7/16–20 SAE J512)

Seal: 45° cone seal
Mating Geometry: SAE J512
Installation Torque[1]: 17 N m [12.5 ft lb]



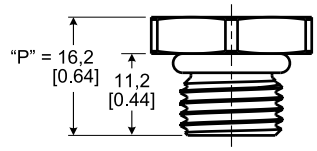
M1 = M12 X 1.5 ISO 6149-3

Seal[2,3]: O-ring
Mating Geometry: ISO 6149-1
Installation Torque[1]: 25 N m [18.4 ft lb]



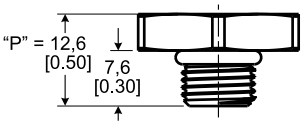
G1 = G1/4 ISO 1179-3

Seal[2,3]: O-ring
Mating Geometry: ISO 1179-1
Installation Torque[1]: 50 N m [38.9 ft lb]



G2 = G1/8 ISO 1179-3

Seal[2,3]: O-ring
Mating Geometry: ISO 1179-1
Installation Torque[1]: 25 N m [18.4 ft lb]



[1]Straight thread maximum torque is validated to 150% of installation torque.

[2]Seals for port order codes **S1**, **S2**, **M1**, **G1** and **G2** are included and assembled to the sensor.

[3]O-ring material is nitrile 70 durometer -30 °C to 125 °C [-22 °F to 257 °F].

ADDITIONAL INFORMATION

The following associated literature is available at sensing.honeywell.com:

- Product line guide
- Product part listing/nomenclature tree
- Product range guide
- Technical Information:
  - Total Error Band Specification for Honeywell Heavy Duty Pressure Transducers, PX2 Series
- Datasheet
- Application information
- Product installation instructions

WARRANTY/REMEDY

Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship. Honeywell's standard product warranty applies unless agreed to otherwise by Honeywell in writing; please refer to your order acknowledgement or consult your local sales office for specific warranty details. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace, at its option, without charge those items it finds defective. **The foregoing is buyer's sole remedy and is in lieu of all other warranties, expressed or implied, including those of merchantability and fitness for a particular purpose. In no event shall Honeywell be liable for consequential, special, or indirect damages.**

While we provide application assistance personally, through our literature and the Honeywell website, it is up to the customer to determine the suitability of the product in the application.

Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this issue; however, we assume no responsibility for its use.

CAUTION

PRODUCT DAMAGE

- Ensure torque specifications are determined for the specific application. Values provided are for reference only. NPT ports are not specified with torque values. Correct installation is based on the number of Turns From Finger Tight (TFFT). (Mating materials and thread sealants can result in significantly different torque values form one application to the next.)
- When using NPT ports in stainless steel manifolds, use a thread sealant with anti-seize properties to prevent thread galling. Ensure the sealant is rated for the application.
- Use appropriate tools (such as an open ended wrench or deep well socket) to install transducers.
- Always hand-start transducers into the hole to prevent cross threading and damage

Failure to comply with these instructions may result in product damage.

⚠ 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 datasheet 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.

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Honeywell serves its customers through a worldwide network of sales offices, representatives and distributors. For application assistance, current specifications, pricing or name of the nearest Authorized Distributor, contact your local sales office or email us at **info.sc@honeywell.com**. Visit us on the Web at **sensing.honeywell.com**

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