



Heavy Duty Pressure Transducers

PX2 Series

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

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 $\pm 2\%$ over the operating temperature range of $-40\text{ }^{\circ}\text{C}$ to $125\text{ }^{\circ}\text{C}$ [$-40\text{ }^{\circ}\text{F}$ to $257\text{ }^{\circ}\text{F}$].

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.

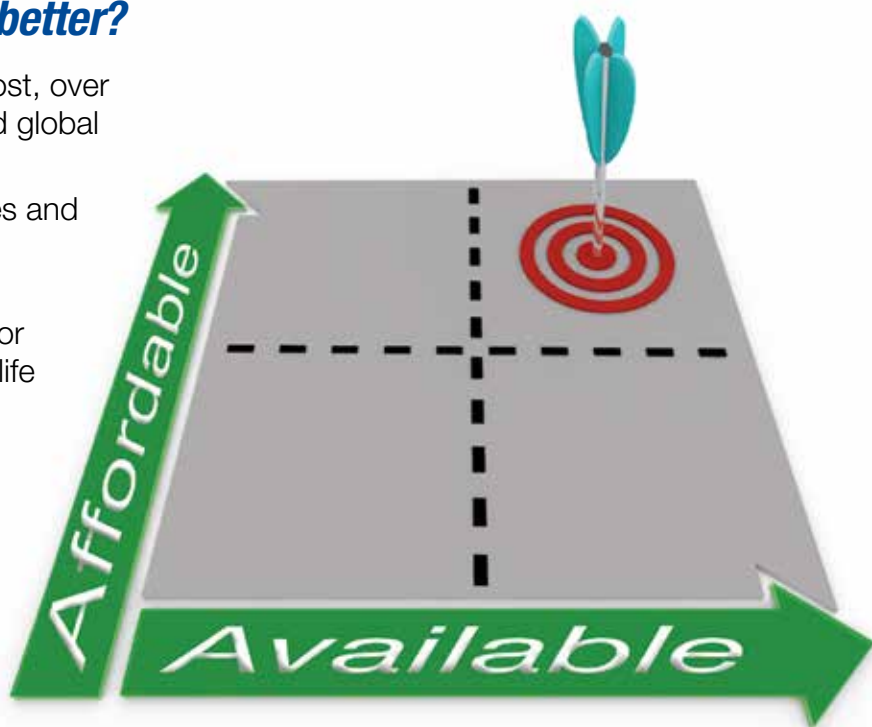
The PX2 Series is available in three pressure ranges, with additional pressure ranges coming soon.

- 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.

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).

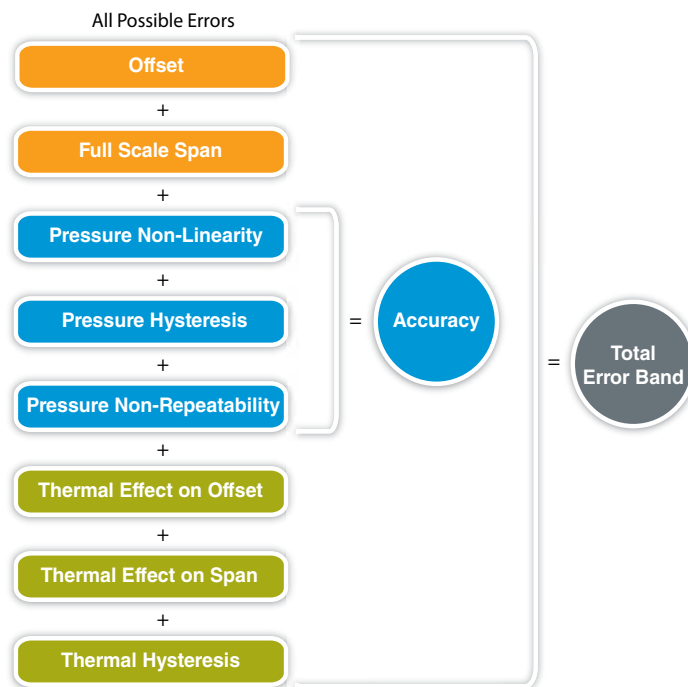


Figure 1: TEB For the PX2 Series

The PX2 Series' industry-leading TEB of $\pm 2\%$:

- 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.

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

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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			

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

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

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

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

⁵Absolute 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.

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

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

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Figure 2. Regulated Output Supply Voltage

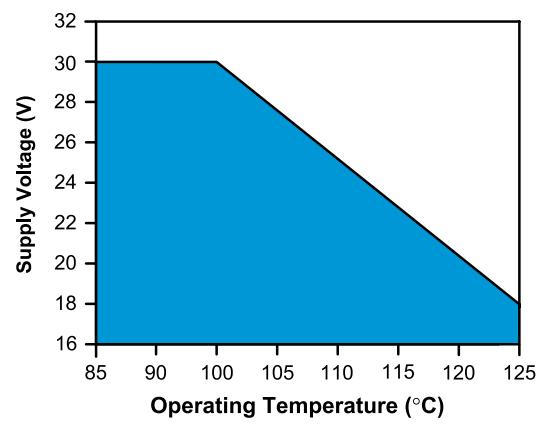


Figure 3. Current Output Supply Voltage

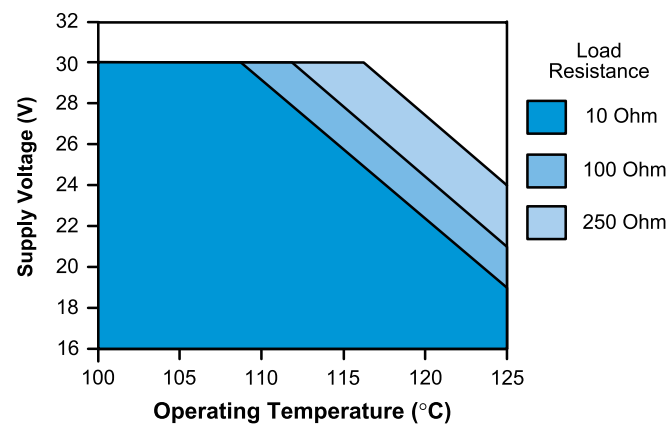
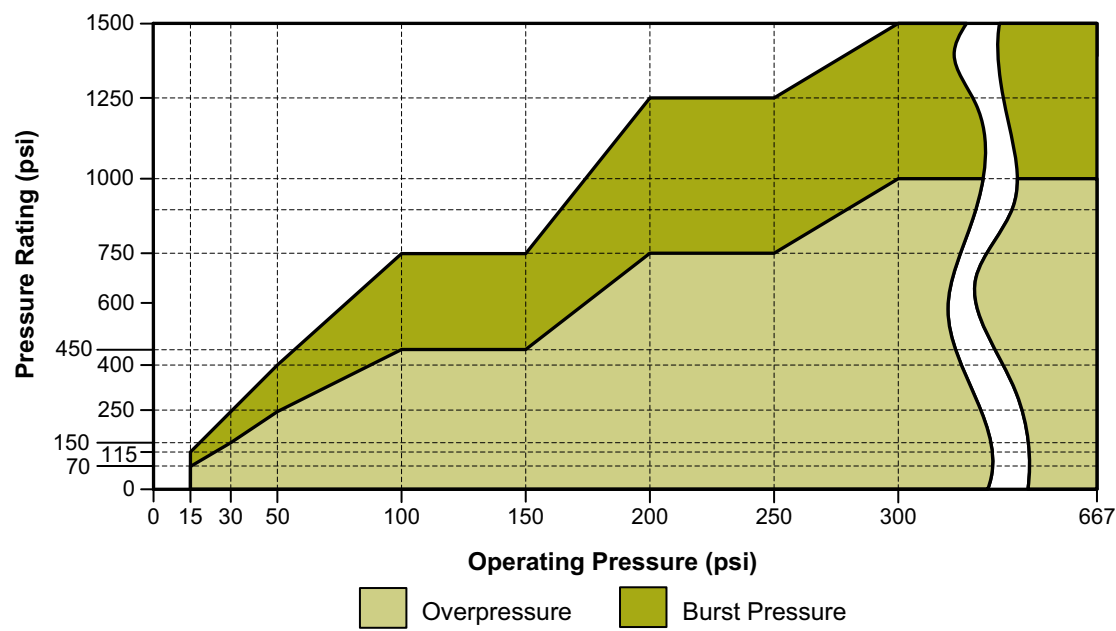


Figure 4. Pressure Rating Curve



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Table 2. Performance Specifications¹

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

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

²Operating 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.

³Storage 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.

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

⁵Overpressure: 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.

⁶Burst 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.

⁷Accuracy: 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.

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

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

¹⁰Total 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.

¹¹Response 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.

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

¹³Life 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.

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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)

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

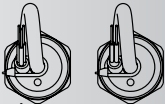
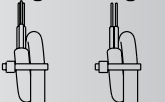
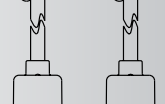
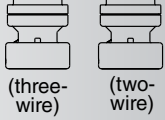
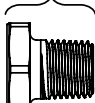
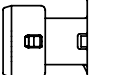
Table 4. Mechanical Characteristics

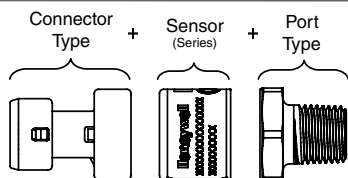
Characteristic	Parameter
Mechanical shock	100 G per MIL-STD-202F, Method 213B, Cond. F (at 25 °C)
Vibration	20 G sweep, 10 Hz to 2000 Hz (at 25 °C)
Enclosure rating	per electrical connector selection (See Figure 7.)
Wetted materials: port substrate adhesives electronics	304 stainless steel alumina ceramic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

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Figure 5. Nomenclature and Order Guide¹

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.

Series			PX2 A N1 XX 150P A BD X		
PX2 Heavy Duty Pressure Transducer ¹			Output Transfer Function		
Connector Type A Delphi Metri-Pack 150² B Micro M12 IEC 61076-2 C DIN EN 175301-803C D Deutsch DTM04-3P E Cable harness, 1 meter³ F Cable harness, 2 meter³ G Cable harness, 3 meter^{3, 4} H Cable harness, 5 meter^{3, 4} Connector Type Sensor (Series) Port Type 			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			Pressure Range		
			A Absolute		
			S Sealed gage ⁵		
			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 45° 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 	



¹Not all catalog listing combinations are available. Custom products are available. Please contact Honeywell.

²Mating connectors available from Honeywell are 3685301 (1 m cable length) and 3685302 (3 m cable length).

³Three-wire cable is required for ratiometric and regulated outputs; two-wire cable is required for current output.

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

⁵Sealed gage option only available in pressure ranges at or above 100 psi.

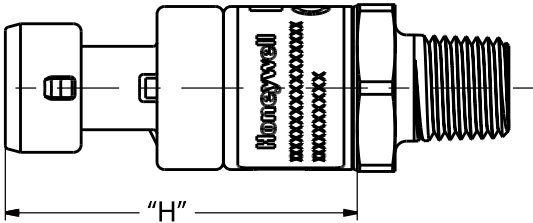
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Figure 6. All Available Standard External Configurations

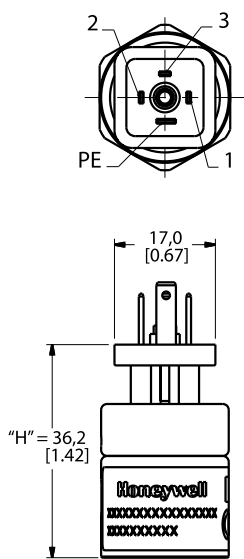
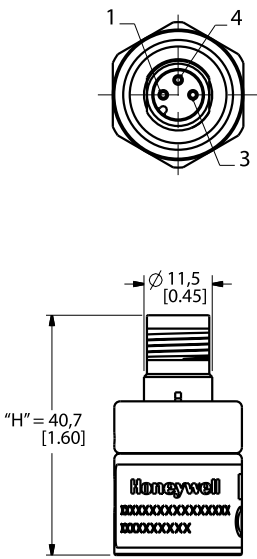
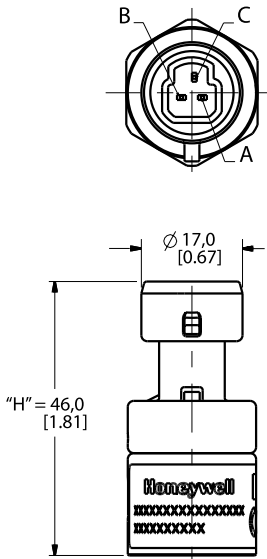
Connector Type	Port Type							
	1/4-18 NPT	1/8-27 NPT	9/16-18 UNF SAE J1926-3	7/16-20 UNF SAE J1926-3	1/4 in 45° Flare Female Schrader (7/16-20 SAE J512)	M12 X 1.5 ISO 6149-3	G1/4 ISO 1179-3	G1/8 ISO 1179-3
Delphi Metri-Pack 150								
Micro M12 IEC 61076-2								
DIN EN 175301-803C								
Deutsch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

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



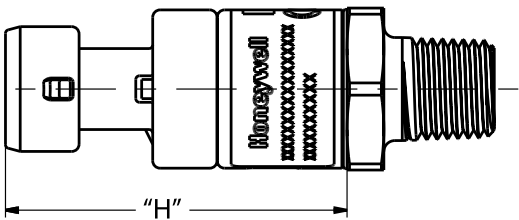
A = Delphi Metri-Pack 150			B = Micro M12 IEC 61076-2			C= DIN EN 175301-803C		
Connector: DELPHI 12078088 Mating Connector: DELPHI 12110192 IP Rating¹: IP65			Connector: IEC 61076-2-101 Mating Connector: 4 POS TYPE D IP Rating¹: IP65/IP67			Connector: EN 175301-803C Mating Connector: EN 175301-803C DIN 43650C 8MM IP Rating¹: 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



¹IP rating is determined by the electrical connection chosen.

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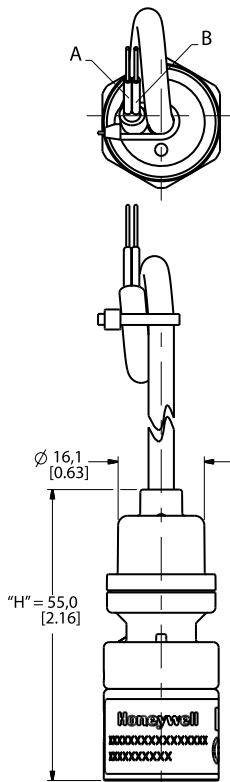
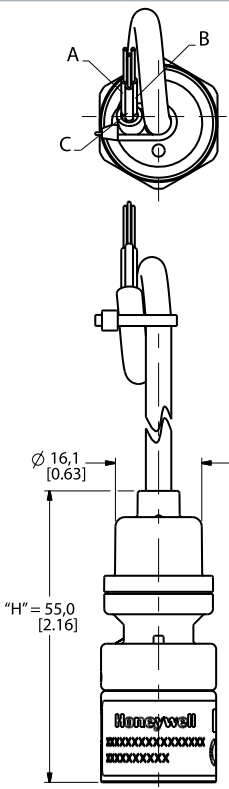
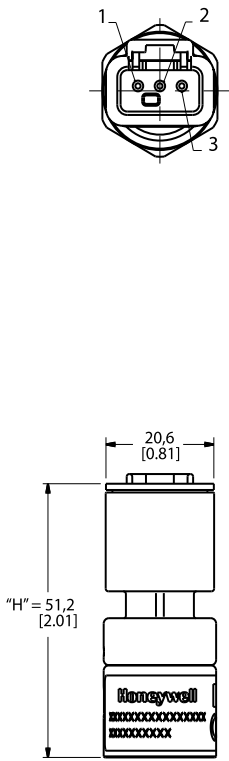
Figure 7. Connector Dimensions, Continued (For reference only: mm/[in.])



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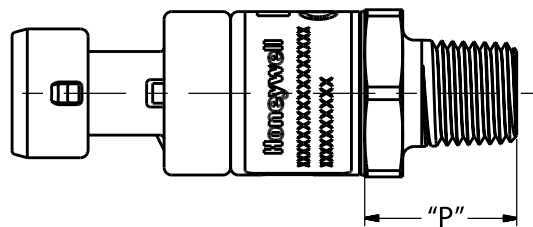
Pin	Voltage Output	Current Output	Wire Color	Voltage Output	Wire Color	Current Output
1	V+	supply	red	V+	red	supply
2	Vout	NC	black	GND	black	RTN
3	GND	RTN	white	Vout		



¹IP rating is determined by the electrical connection chosen.
²Three-wire cable is required for ratiometric and regulated outputs; two wire cable is required for current output.
³Three meter and five meter cables are only available with Output Transfer Function **CH** = Current, 4 mA to 20 mA.

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



N1 = 1/4-18 NPT Seal: pipe thread Mating Geometry: ANSI B1.20.1 Installation Torque¹: 2 to 3 Turns From Finger Tight	N2 = 1/8-27 NPT Seal: pipe thread Mating Geometry: ANSI B1.20.1 Installation Torque¹: 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 Torque¹: 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 Torque¹: 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 Torque¹: 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 Torque¹: 25 N m [18.4 ft lb]
G1 = G1/4 ISO 1179-3 Seal^{2,3}: O-ring Mating Geometry: ISO 1179-1 Installation Torque¹: 50 N m [38.9 ft lb]	G2 = G1/8 ISO 1179-3 Seal^{2,3}: O-ring Mating Geometry: ISO 1179-1 Installation Torque¹: 25 N m [18.4 ft lb]

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

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

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

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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.

Sales and Service

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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