

Stainless Steel Media Isolated Pressure Sensors Line Guide



Stainless products. Steeled expertise. Honeywell Sensing and Control (S&C) offers decades of experience in the stainless steel pressure transducers industry. That's why, industry-wide, our transducers are known for enhanced quality, reliability, and service – which adds up to outstanding value for your applications. Most Honeywell S&C transducers take advantage of piezoresistive technology, and are fully steel media isolating with

stainless steel or aerospace alloys and no internal elastometric seals. This design often makes them resistant to harsh, aggressive media and challenging environments. What's more, long before they're shipped, our transducers are tested against critical manufacturing specifications. Then again, you expect meticulous attention to detail from an industry leader.

FEATURES

STAINLESS STEEL MEDIA ISOLATED PRESSURE SENSORS 13 mm Series.

Features: Rugged, isolated stainless steel package • Accommodates media that will not adversely affect 316L stainless steel

- Often reliable semiconductor technology
- Calibrated and temperature compensated
- Voltage or current supply options
- Absolute and sealed gage pressures
- For potential applications from 500 psi to 5,000 psi

Benefits: Used in high pressure potential applications involving measurement of hostile media in harsh environments. Piezoresistive semiconductor sensor chip in oil-isolated housing with or without an integral ceramic for temperature compensation and calibration is designed to provide reliable, stable, and accurate performance. Weld-ring collar and special back support ring for enhanced cycle life capability as well as further package integration in OEM applications. Potential applications include industrial and hydraulic controls, tank pressure, pressure transmitters, and process control systems.

19 mm Series.

Features: Rugged, isolated stainless steel package • Accommodates media that will not adversely affect 316L stainless steel

- Small size
- Often reliable semiconductor technology
- Absolute and gage pressures
- Vacuum compatible, isolated sensors
- Calibrated and temperature compensated (some listings)
- For potential applications up to 500 psi

Benefits: Variety of pressure connections allow use in wide range of OEM equipment. Uncompensated version for use in potential applications using specialized circuit designs. Rugged and often reliable for use in potential applications where corrosive liquids or gases are monitored and may also be exposed to a vacuum such as industrial controls, process control systems, industrial automation and flow control, and pressure calibrators.

40PC Series.

Features: Calibrated and temperature compensated

- Monolithic design
- Miniature size
- Port designed for O-ring interface

Benefits: Covers wide range of temperature extremes in potential medical, environmental, instrumentation, and robotics applications. Compatible with broad array of media, from dry air and water to refrigerant coolants and engine fuel. Zero analog output voltage signal linearly proportional to input pressure. Miniature size often ideal where space on PCB is minimal.

AB Series.

Features: Flush-mount

- Many mounting options
- Easy to clean
- Enhanced accuracy
- Two thermally matched strain gages
- PSIA and bi-directional models
- Applicable to special packaging
- Temperature compensated and calibrated

Benefits: Flush-mounted for use in potential applications where ease of cleaning or low-fluid volumes are important requirements. May also be mounted in adapter for more conventional installations. Both zero and full-scale temperature compensation are held to extremely narrow limits. Potential applications include respirators, fire

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When reliability is demanded, Honeywell delivers.

Stainless steel pressure transducers are found in applications where sensors cannot be easily replaced — where supreme durability is a top priority. That's why you'll find Honeywell S&C pressure transducers performing expertly in potential applications, such as compressors and hydraulic controls, and in industries as diverse as aerospace, medical, transportation, agriculture, refrigeration, and industrial. Our full line of sensors deliver enhanced performance and reliability, plus: bonded strain gage technology enhances resistance to shock, vibration and hostile conditions; absolute, gage and sealed-gage measurement; a wide array of pressure ranges, port styles, termination types, and outputs; package types from miniature surface mount sensors to high-end stainless steel isolated transmitters (for stringent process control); pressure ranges from 3 psi to 20 kpsi; and corrosion resistance.



13 mm Series



19 mm Series

Pressure Sensors

	13 mm Series	19 mm Series
Pressure connection	ring with back support, 1/8-27 NPT, 1/4-18 NPT, 7/16 UNF	cell with body O-ring, flush mount, flush mount with flange, 1/8-27 NPT, 1/4-18 NPT, 7/16 UNF, 1/4 BSPP, Euro O-ring, 1/4 VCR (female nut)
Measurement type	absolute, sealed gage	absolute, gage, vacuum gage
Construction	wetted parts 316L SS	wetted parts 316L SS
Pressure range	0 psi to 500 psi through 0 psi to 5000 psi	0 psi to 3 psi through 0 psi to 500 psi
Output signal	0 mV to 100 mV (nominal)	0 mV to 150 mV (nominal)
Accuracy	±0.25% BFSL max.	±0.25% BFSL max.
Amplified	no	no
Compensated temperature range	0 °C to 82 °C [32 °F to 180 °F]	0 °C to 82 °C [32 °F to 180 °F]
Termination	ribbon cable	ribbon cable



40PC Series

Pressure Sensors

Signal conditioning	amplified
Pressure range	0 psi to 500 psi (inclusive)
Device type	gage, bidirectional gage, vacuum gage
Output	Vdc
Calibrated	yes
Compensated	yes
Operating temperature range	-45 °C to 85 °C [-49 °F to 185 °F] (compensated)



Pressure Sensors

	AB Series	BL Series	BX Series
Pressure connection	flush diaphragm	flush diaphragm	flush diaphragm
Measurement type	psia, psis, psig	absolute, gage, sealed gage	gage
Construction	316L or 15-5PH stainless steel	wetted parts 15-5 PH/316L SS	wetted parts 304 SS
Pressure range	0 psi to 20000 psi, -14.7 psia to 50 psia	0 psi to 20000 psi	0 psi to 300 psi
Output signal	0 mV to 100 mV	4 mA to 20 mA	0 mVdc to 50 mVdc
Accuracy	0.5% full scale BFSL, 0.25 % full scale BFSL	0.25% to 1% full scale BFSL	1% full scale BFSL
Amplified	no	yes	no
Compensated temperature range	-1 °C to 71 °C [30 °F to 160 °F]	-1 °C to 54 °C [30 °F to 130 °F]	0 °C to 80 °C [32 °F to 176 °F]
Termination	4-conductor shielded cable (various lengths), Bendix high temperature connector	Bendix connector, cable	pin



Pressure Sensors

	Datamate (DM) Series	DG Series	EA Series
Pressure connection	1/8-27 NPT, 3/8-24 UNF	3/8-24 UNF, 1/8-27 NPT, PT-1/4	1/4 tube, 1/8-27 NPT, 3/8-24 UNF
Measurement type	gage, sealed gage	sealed gage	gage
Construction	wetted parts 303 & 304 SS/housing 304 SS	wetted parts 303 & 304 SS/housing 304 SS	wetted parts 304 SS, Valox plastic case
Pressure range	0 psi to 5000 psi, 0 bar to 345 bar	0 bar to 500 bar 0 psi to 7100 psi	0 psi to 5000 psi
Output signal	4 mA to 20 mA	0.25 Vdc to 4.75 Vdc	1 Vdc to 6 Vdc
Accuracy	1.0% full scale BFSL	1.0% full scale BFSL	1% full scale BFSL
Amplified	yes	yes	yes
Compensated temperature range	-1 °C to 54 °C [30 °F to 130 °F]	-40 °C to 125 °C [-40 °F to 257 °F] (compensated)	-1 °C to 85 °C [30 °F to 185 °F]
Termination	3 Wire 24 AWG, 1/2 in NPT conduit	Packard Metri-Pack	push-on automotive type with crimp pins

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Pressure Sensors

	Eclipse (EC) Series	Mediamate (MM) Series
Pressure connection	1/8-27 NPT, G1/4 BSP	1/8-27 NPT, 3/8-24 UNF, G 1/8 BSP, G 1/4 BSP
Measurement type	gage, sealed gage	psig, psis
Construction	wetted parts 303 & 304 SS/housing 304 SS	wetted parts 303 & 304 SS/housing 304 SS
Pressure range	0 bar to 500 bar 0 psi to 7100 psi	0 psi to 7000 psi, 0 bar to 500 bar
Output signal	1 Vdc to 6 Vdc regulated, 0.5 Vdc to 4.5 Vdc, 4 mA to 20 mA	0 mV to 50 mV
Accuracy	0.25% full scale BFSL	0.5% full scale BFSL, 0.25 % full scale BFSL
Amplified	yes	no
Compensated temperature range	-1 °C to 82 °C [30 °F to 180 °F] (compensated)	-1 °C to 82 °C [30 °F to 180 °F]
Termination	Hirschmann connector, Packard Metri-Pack and cable	Hirschmann connector, solder, or push-on spades



Pressure Sensors

MLH Series

Pressure connection	1/4-18 NPT, M12 x 1.5 (ISO 6149), M14 x 1.5 (ISO 6149), 3/8-24 UNF (SAE-3 O-ring boss), M18 x 1.5 (ISO 6149), 1/8 in-27 NPT, 1/2 in-20 UNF (SAE-5 O-ring boss), M10 x 1 (ISO 6149), 1/4 in SAE Female Schrader, 7/16-20 UNF (SAE-4 O-ring boss), 1/2 in NPT, 9/16-18 UNF (SAE-6 O-ring boss), PT 1/4-19 BSP Tapered Thread, G 1/4-19 (DIN 3852-2), G 1/8 with O-ring groove, M16 x 1.5 (ISO 6149), G 1/4 with O-ring groove, G 1/8 (DIN 3852-2), PT1/8-28 BSP Tapered Thread, M20 x 1.5 (ISO 6149), 1/2-20 37° Flare (SAE JIC)
Measurement type	gage, sealed gage
Construction	port - 304L stainless steel; diaphragm - Haynes 214 alloy
Pressure range	0 psi to 50 psi through 0 psi to 8000 psi
Output signal	0.5 Vdc to 4.5 Vdc ratiometric output at 5 Vdc excitation, 4 mA to 20 mA current from 9.5 Vdc to 30 Vdc excitation, 1.0 Vdc to 6.0 Vdc regulated output from 8 Vdc to 30 Vdc excitation, 0.25 Vdc to 10.25 Vdc regulated output from 14 Vdc to 30 Vdc excitation, 0.5 Vdc to 4.5 Vdc regulated output from 7 Vdc to 30 Vdc excitation, 0 mV to 50 mV from 5 Vdc excitation, 1 Vdc to 5 Vdc output from 8 Vdc to 30 Vdc excitation
Accuracy	±0.25% full scale BFSL (±0.5% full scale BFSL on ranges below 100 psi)
Amplified	yes
Compensated temperature range	-40 °C to 125 °C [-40 °F to 257 °F]
Termination	Packard MetriPak 150, Hirschmann, M12 x 1 (Brad Harrison micro), DIN 72585 (Cannon APD type), DIN 43650-C (IP65), Amp Superseal 1.5 (IP67), cable, flying leads, Deutsch DTM04-3P (integral)



Pressure Sensors

	SA Series	SPT Series
Pressure connection	G1/4-28 BSP, 1/8-27 NPT, 3/8-24 UNF, PT-1/4	1/8-27 NPT, 1/4-18 NPT, 7/16-20 UNF, 1/4-19 BSPP, 1/4 VCR gland
Measurement type	absolute, gage, sealed gage	absolute, gage, sealed gage, vacuum gage pressures
Construction	wetted parts 303 & 304 SS/housing 304	wetted parts 316L SS
Pressure range	0 psi to 7000 psi 0 bar to 500 bar	0 psi to 3 psi through 0 psi to 5000 psi
Output signal	1 Vdc to 6 Vdc, 1 Vdc to 5 Vdc	4 mA to 20 mA, 0 mV to 100 mV, 1 Vdc to 5 Vdc
Accuracy	1.0% full scale BFSL	±0.25% BFSL max.
Amplified	yes	yes, amplified and unamplified
Compensated temperature range	-1 °C to 85 °C [30 °F to 185 °F] (compensated)	-10 °C to 85 °C [14 °F to 185 °F]
Termination	Hirschmann connector, 3-conductor shielded cable	bayonet connector, cable



Pressure Sensors

	SR Series	XPRO (XP) Series
Pressure connection	capsule	1/8-27 NPT, 3/8-24 UNF, PT-1/4
Measurement type	gage	absolute, gage, sealed gage
Construction	wetted parts 304 SS or 316 SS	wetted parts 303 & 304 SS/housing 304 SS
Pressure range	0 psi to 2000 psi, 0 bar to 100 bar	0 psi to 7000 psi, 0 bar to 500 bar
Output signal	25 mV/mA	4 mA to 20 mA
Accuracy	1% full scale BFSL	1.0% full scale BFSL
Amplified	no	yes
Compensated temperature range	0 °C to 75 °C [32 °F to 167 °F]	-1 °C to 85 °C [30 °F to 185 °F]
Termination	pin	Hirschmann connector, 3-conductor shielded cable

fighting equipment, drilling mud density, kidney dialysis machines, hydraulic servo valves, gas monitoring, transit vehicle braking systems, liquid-level measurement, landing gear hydraulic pressure, geophysical research, engine monitor control, and diesel engines.

BL Series.

Features: Flush diaphragm • Hermetically sealed • Easily cleaned/adaptable

- FM approval • Accuracies to 0.25%
- Measures vacuum • Reverse polarity protection • Amplified 4 to 20 mA output and temperature compensated

Benefits: Flush diaphragm suited to measuring viscous fluids, slurries, and media where system flushing is necessary. May be mounted in an adapter. Factory Mutual approval as an intrinsically safe device when used with approved barriers for use in hazardous areas. Potential applications include depth sensing, water resource management, process controls, marine instrumentation, chemical manufacture, tank/liquid level, and paint spraying applications. May also potentially be used in food & beverage, pulp & paper, and petro-chemical industries.

BX Series.

Features: Low cost • Small size • Oil-free isolated sensor • Flush-mount, non-corrugated diaphragm • High-impedance

- Constant current • Temperature compensated

Benefits: Enhanced performance, calibrated, and temperature compensated. Small size often ideal for portable equipment. Stainless steel construction designed to tolerate a wide variety of corrosive media. Small, flush mount diaphragm often ideal for medical, beverage, and food processing potential applications where stringent sanitation requirements are necessary. Other potential applications include pressure transmitters, solid-state pressure switches, "smart" valves, and OEM medical equipment.

Datamate (DM) Series.

Features: Conduit connections for process industry • Waterproof exterior

- Factory calibration • Designed to be intrinsically safe • Wide choice of pressure ranges • Reverse polarity protected • Amplified and temperature compensated

Benefits: Two-wire pressure transmitter compatible with data loggers and instrumentation used in processing environments. 4 mA to 20 mA output for remote monitoring of primary and secondary process variables. Threaded connector allows conduit to be easily attached. Often suitable for use with media in potential applications that would otherwise require isolators such as liquid level measurement, plant utilities, gas transmission pipeline, flow detection, geophysical monitoring, and lubrication.

DG Series.

Features: Meets SAE J1211 specifications for under hood applications • High temperature capability [125 °C, 257 °F]

- Wide choice of pressure ranges (100 psis to 7000 psis) • Integral automotive type connector • Reverse polarity and output protection • Ratiometric output • Sealed steel case • Amplified and temperature compensated • Enhances installation

Benefits: Steel case seals internal electronics from environment for enhanced reliability in tough, hostile environments. Output can interface directly with many microprocessors with onboard A/D converters, reducing typical transducer support circuitry. Potential applications include automotive brake systems, fuel rail/injection engine oil, continuously variable transmissions, active suspensions, and energy management.

EA Series.

Features: Large choice of pressure ranges • UL approval • Rugged, lightweight Valox case • Compatible with microprocessors • Amplified and temperature compensated • Corrosion resistance

Benefits: Pressure port, amplifier, and voltage supply-regulator packaged in Valox case. Operates through millions of pressure cycles without damage and is well suited for cycling regimes. Potential applications include agricultural sprayers, air conditioning, refrigeration, engine controls, environmental control systems, compressors, hydraulic and pneumatic controls, robotics, transmissions, and waste management.

Eclipse (EC) Series.

Features: Voltage or current output

- Broad selection of ranges • CE, UL, and cUL listings for some combinations
- Weatherproof-type connector • IP65 sealed case with appropriate connector
- IP66 with cable termination • Often suitable for marine or off-road vehicle use
- Internal signal amplification • Low-excitation voltage • Reverse polarity protection

Benefits: Designed for high volume OEMs requiring a low-cost pressure transmitter for industrial and heavy-duty applications. Rugged packaging and plated steel case provide environmental protection for electronics. Output in mA useful for applications with high RFI/EMI electrical noise. Potential applications include automotive systems, hydraulic/pneumatic controls, air compressors, energy management (compressors, refrigeration/chiller control), process control systems, and engine controls and monitors.

Mediamate (MM) Series.

Features: Low cost • Wide choice of pressure ranges • Rugged, compact configuration • Corrosion resistant • PC mountable • Threaded port • No adapter required • Easy to package • Temperature compensated • CE mark with Hirschmann connector

Benefits: Rugged construction and proven reliability. Fully compensated and completely interchangeable without further calibration. Used with a wide variety of corrosive media such as ammonia, water, and hydraulic fluids

in gas chromatography, paint-spraying systems, electronic pressure switches, medical diagnostics, heat pumps, hydraulic controls, irrigation systems, and automotive.

MLH Series.

Features: All-wetted parts • No internal elastomeric seals • Stable and creep free • Reverse voltage and output short circuit protected • Less than 2 ms response time • Easy customization • Rated IP65 or better • Exceeds CE heavy industrial EMC for use in areas of high RFI/EMI • Amplified and temperature compensated • Wide choice of connections and terminations • Calibration for special pressure ranges

Benefits: Combines ASIC technology with media isolated, metal diaphragm. All metal wetted parts for use in a variety of potential fluid applications. Amplified outputs often eliminate cost of external amplifiers. Wide selection of industry standard connectors and process ports for enhanced reliability and user flexibility. Potential applications include diesel engines, refrigeration and HVAC/R, general industrial and hydraulics, off-road vehicles, braking systems, natural gas vehicles, and medical.

SA Series.

Features: Sealed construction • Wide choice of pressure ranges • UL approved • Reverse polarity protection • RFI/EMI protection • PSIG, PSIS, and PSIA versions • Amplified and temperature compensated • Calibrated and compensated • Field interchangeable

Benefits: Water-resistant, rugged, stainless steel case for protection from harsh environments. Internal hermetic sealing provides measurement of absolute pressures or those referenced to a sealed chamber. Approved by Underwriters Laboratories as a component in float and pressure-operated motor controller. Potential applications include freon and ammonia refrigerant monitoring in HVAC/R systems, hydraulic controls, blood diffusion, agriculture sprayers and dusters, compressors, engine controls, energy management systems, robotics, automated machining, automotive systems, and general industrial pressure monitoring/control systems.

SPT Series.

Features: Often reliable semiconductor technology • Rugged, 316L stainless steel wetted parts • Calibrated and temperature compensated • NEMA 4 design • Absolute, gage, sealed gage, and vacuum gage pressures • Often ideal for potential applications where media compatibility is a problem

Benefits: Variety of pressure connections allows use in wide range of OEM equipment. For use in potential applications where corrosive liquids and gases are monitored such as industrial automation and flow control, pressure instrumentation, hydraulic systems, and process control.

SR Series.

Features: Low cost • High-impedance silicon strain gages • Small size • Stainless steel • Low-current draw • Enhanced reliability • Enhanced corrosion resistance • Wide range of pressure measurements • Constant current excitation • Temperature compensated

Benefits: Low current draw allows use with batteries. Sensing elements isolated from media. Provides high working pressures, high overload and burst pressures often at no additional cost. Temperature compensated to improve system performance often at no additional cost, unlike other low cost sensors. Works with readily available 4 mA to 20 mA amplifier ICs. Potential applications include pressure transducers, “smart” valves, solid-state pressure switches, and pressure transmitters.

XPRO (XP) Series.

Features: Sealed, rugged package • 1% accuracy for secondary process measurements • Low cost • Stainless steel • Designed to be intrinsically safe • Corrosion resistant • Often suited for industrial environments • Amplified and temperature compensated

Benefits: 4 mA to 20 mA output suited for long cable-runs in electrically noisy environments. Silicon strain gages mounted on a beam coupled to stainless steel diaphragm for maximum isolation from thermal transients. Stainless steel pressure cavity has no elastomer seals or adhesive bonds to corrode. Designed to be intrinsically safe for use in hazardous locations when used with approved barriers. Potential applications include freon and ammonia refrigeration, process control, flow detection, pneumatic systems, water resource management, and liquid level measurement.

Warranty. 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 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.**

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

For more information about Sensing and Control products, visit www.honeywell.com/sensing or call +1-815-235-6847. Email inquiries to info.sc@honeywell.com

 **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 catalogue is for reference only. DO NOT USE this document as product installation information.
- 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



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The pressure is on. The answer is here. No matter the need, Honeywell Sensing and Control (S&C) has the microstructure, pressure sensor solution. Our sensing element design consists of four piezoresistors galvanized with a thin, chemically etched silicon diaphragm. A pressure change will flex the mechanism, causing a strain in the diaphragm and the buried resistors. The resistor values will change in proportion to the stress

applied, which produces an electrical output. So you'll find our components performing in potential applications including dialysis equipment, blood analysis, centrifusion and oxygen and nitrogen gas distribution, HVAC devices, data storage, process controls, industrial machinery, pumps, and robotics. Honeywell S&C is always working harder, no matter the situation. Or the pressure.

FEATURES

ULTRA-LOW PRESSURE SENSORS ASDX Series.

Features: Calibrated and temperature compensated • ASIC-enhanced output

- Analog output with 12-bit resolution
- 12-bit digital output (I²C- or SPI-compatible protocol) • Ratiometric output
- Enhanced response time and accuracy
- DIP package • Cost effective

Benefits: Fully calibrated and temperature compensated with on-board ASIC designed to provide digital correction of sensor offset, sensitivity, temperature coefficients, and non-linearity. Analog output ratiometric with supply voltage over compensated supply range with 12-bit resolution. 12-bit I²C- or SPI-compatible protocol allows easy interfacing to most commonly used microcontrollers and microprocessors without additional components and electronic circuitry. Output is corrected pressure value in hexadecimal format with 12-bit accuracy (unsigned) and independent of the supply voltage. Offers high level output on a cost-effective basis. Intended for use with non-corrosive, non-ionic working fluids such as air and dry gases in potential applications such as flow calibrators, ventilation and airflow monitors, gas flow instrumentation,

sleep apnea monitoring, and therapy equipment.

CPCL Series.

Features: Calibrated and temperature compensated • Cost effective • Small size • Constant voltage excitation • High impedance, low current

Benefits: Integrates silicon micromachined sensing technology, temperature compensation, and calibration in a small, cost-effective package. Tube arrangements with nylon housings available for various pressure applications, especially those requiring small size or vacuum reference. Although designed for use with non-corrosive, non-ionic pressure media, sensors may accommodate many potential medical application gases.

CPXL Series.

Features: Non-calibrated and non-temperature compensated • Small size • Cost effective • Constant voltage excitation • High impedance, low current

Benefits: Integrates silicon micromachined sensing technology in a cost-effective package. Tube arrangements with nylon housings available for various pressure

applications, especially those requiring small size, or vacuum reference. Although designed for use with non-corrosive, non-ionic pressure media, accommodates many potential medical application gases.

DCXL-DS Series.

Features: Calibrated and temperature compensated • Improved stress isolation

- Reduced output offset errors

Benefits: Based on proprietary technology designed to reduce output offset or common mode errors due to changes in temperature, warm-up, long-term stability and position sensitivity. Features calibrated offset, full scale span and thermal error calibration to promote accuracy for flow pressure measurement. Industry-standard, ported package with improved stress isolation for printed circuit board mount applications. Used in medical, HVAC and industrial instrumentation applications.

XCAL Series.

Features: Calibrated and temperature compensated • Cost effective • Constant voltage excitation • Ratiometric output

Benefits: State-of-the-art silicon micromachined pressure sensors. Stress-free packaging techniques provide

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Silicon Pressure Sensors Line Guide

Working better under pressure.

The human body is a supremely sensitive mechanism, requiring equally perceptive observation. Honeywell S&C offers a line of pressure sensors equal to every task — including sensors that measure the amount of pressure delivered to the human body.

From medical applications to industrial needs to any industry, we've got the right solution. Our categories of pressure sensor measurement include absolute, differential, gage or vacuum gage — with unamplified or amplified sensors covering a pressure range of 0 psi to 250 psi (0 bar to 17.24 bar). You'll also find: a variety of mounting and package styles; digital output, small size, reduced cost — enhanced reliability; enhanced repeatability and accuracy under extreme conditions; enhanced operating characteristics between sensors, and interchangeability without recalibration.



Ultra-Low Pressure Sensors

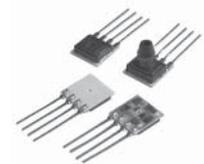
ASDX Series

Signal conditioning	amplified
Pressure range	±5 in H ₂ O, ±10 in H ₂ O
Device type	absolute, differential, bidirectional gage
Output	analog (Vdc), digital (I ² C or SPI)
Calibrated	yes
Temperature compensated	yes
Operating temperature range	0 °C to 85 °C [32 °F to 185 °F] (compensated)
Accuracy	-
Total error band	±2.0 %FSS max.
Mounting options	DIP



Ultra-Low Pressure Sensors

CPCL Series



CPXL Series

Signal conditioning	unamplified	unamplified
Pressure range	4 in H ₂ O to 10 in H ₂ O	4 in H ₂ O to 10 in H ₂ O
Device type	absolute, differential, gage	absolute, differential, gage
Output	mV	mV
Calibrated	yes	no
Temperature compensated	yes	no
Operating temperature range	0 °C to 70 °C [32 °F to 158 °F] (compensated)	-25 °C to 85 °C [-13 °F to 185 °F]
Accuracy	linearity & hysteresis 0.5% typ.	linearity & hysteresis 0.5% typ.
Mounting options	SIP	SIP



Ultra-Low Pressure Sensors

	DCXL-DS	XCAL Series	XCXL Series
Signal conditioning	unamplified	amplified	unamplified
Pressure range	±1 in H ₂ O to ±10 in H ₂ O	±4 in H ₂ O to ±10 in H ₂ O	±4 in H ₂ O to ±10 in H ₂ O
Device type	differential	differential	differential
Output	mV	Vdc	mV
Calibrated	yes	yes	yes
Temperature compensated	yes	yes	yes
Operating temperature range	0 °C to 50 °C [32 °F to 122 °F]	0 °C to 50 °C [32 °F to 122 °F] (compensated)	0 °C to 70 °C [32 °F to 158 °F] (compensated)
Accuracy	linearity & hysteresis 0.2% typ.	-	linearity & hysteresis 0.5% typ.
Mounting options	SIP	SIP	SIP



Ultra-Low Pressure Sensors

	XPCL Series	XPXL Series
Signal conditioning	unamplified	unamplified
Pressure range	4 in H ₂ O to 10 in H ₂ O	4 in H ₂ O to 10 in H ₂ O
Device type	differential, gage	differential, gage
Output	mV	mV
Calibrated	yes	no
Temperature compensated	yes	no
Operating temperature range	0 °C to 70 °C [32 °F to 158 °F] (compensated)	-25 °C to 85 °C [-13 °F to 185 °F]
Accuracy	linearity & hysteresis 0.5% typ.	linearity & hysteresis 0.5% typ.
Mounting options	SIP	SIP

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Ultra-Low Pressure Sensors

	SCXL Series	SDX005IND4 SDX010IND4
Signal conditioning	unamplified	unamplified
Pressure range	4 in H ₂ O to 10 in H ₂ O	±5 in H ₂ O to ±10 in H ₂ O
Device type	differential, gage	differential, gage
Output	mV	mV
Calibrated	yes	yes
Temperature compensated	yes	yes
Operating temperature range	0 °C to 50 °C [32 °F to 122 °F] (compensated)	0 °C to 50 °C [32 °F to 122 °F] (compensated)
Accuracy	linearity & hysteresis 0.2% typ.	linearity & hysteresis 0.2% typ.
Mounting options	SIP	DIP



Ultra-Low Pressure Sensors

	SXL Series	DC Series	DUXL Series
Signal conditioning	unamplified	amplified	unamplified
Pressure range	±10 in H ₂ O	1 in H ₂ O to 10 in H ₂ O	1 in H ₂ O to 30 in H ₂ O
Device type	differential, gage	differential, gage	differential, gage
Output	mV	Vdc	mV
Calibrated	no	yes	no
Temperature compensated	no	yes	no
Operating temperature range	0 °C to 50 °C [32 °F to 122 °F]	0 °C to 50 °C [32 °F to 122 °F] (compensated)	-25 °C to 85 °C [-13 °F to 185 °F] (compensated)
Accuracy	linearity & hysteresis 0.2% typ.	total error band ±2.0%	linearity & hysteresis 0.5% typ.
Mounting options	SIP	SIP	SIP

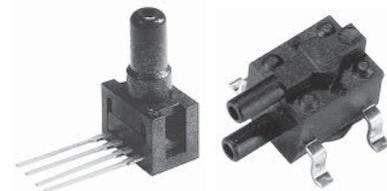
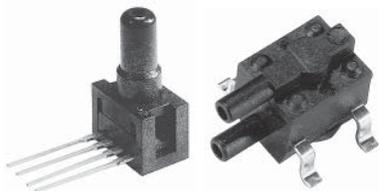


Low Pressure Sensors

TruStability™ HSC Series

TruStability™ SSC Series

Signal conditioning	amplified	amplified
Pressure range	1 psi to 150 psi	1 psi to 150 psi
Device type	absolute, differential, gage, compound	absolute, differential, gage, compound
Output	analog (Vdc) or digital (I ² C or SPI)	analog (Vdc) or digital (I ² C or SPI)
Calibrated	yes	yes
Compensated	yes	yes
Operating temperature range	-20 °C to 85 °C [-4 °F to 185 °F] (compensated)	-40 °C to 85 °C [-40 °F to 185 °F] (compensated)
Accuracy	linearity & hysteresis ±0.25 %FSS BFLS	linearity & hysteresis ±0.25 %FSS BFLS
Total error band	±1 %FSS	± 2 %FSS
Mounting options	DIP, SIP, SMT	DIP, SIP, SMT



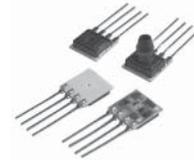
Low Pressure Sensors

24PC Series

26PC Series

Signal conditioning	unamplified	unamplified
Pressure range	0.5 psi to 250 psi (SIP, DIP) 1 psi to 15 psi (SMT)	1 psi to 250 psi (SIP, DIP) 1 psi to 15 psi (SMT)
Device type	absolute, differential, wet-wet differential, gage, vacuum gage	differential, wet-wet differential, gage, vacuum gage
Output	mV	mV
Calibrated	no	yes
Compensated	no	yes
Operating temperature range	-40 °C to 85 °C [-40 °F to 185 °F]	0 °C to 50 °C [32 °F to 122 °F] (compensated)
Accuracy	linearity & hysteresis 0.5% typ.	linearity & hysteresis 0.5% typ.
Mounting options	DIP, SIP, SMT	DIP, SIP, SMT

Silicon Pressure Sensors Line Guide



Low Pressure Sensors

	ASDX Series	CPC Series	CPX Series
Signal conditioning	amplified	unamplified	unamplified
Pressure range	1 psi to 100 psi	1 psi to 150 psi	1 psi to 150 psi
Device type	absolute, differential, gage, bidirectional	absolute, differential, gage	absolute, differential, gage
Output	analog (Vdc), digital (I ² C or SPI)	mV	mV
Calibrated	yes	yes	no
Compensated	yes	yes	no
Operating temperature range	0 °C to 85 °C [32 °F to 185 °F] (compensated)	0 °C to 70 °C [32 °F to 158 °F] (compensated)	-25 °C to 85 °C [-12 °F to 185 °F]
Accuracy	-	linearity & hysteresis 0.5% typ.	linearity & hysteresis 0.5% typ.
Total error band	±2.0% FSS max.	-	-
Mounting options	DIP	SIP	SIP



Low Pressure Sensors

	HPX Series	SCC Series	SX Series
Signal conditioning	unamplified	unamplified	unamplified
Pressure range	1 psi to 100 psi	1 psi to 100 psi (SIP, DIP) 1 psi to 150 psi (SMT)	1 psi to 150 psi
Device type	absolute, gage	absolute, differential, gage	absolute, differential, gage
Output	mV	mV	mV
Calibrated	no	no	no
Compensated	no	yes	no
Operating temperature range	-20 °C to 100 °C [-4 °F to 212 °F]	0 °C to 50 °C [32 °F to 122 °F] (compensated)	SIP, DIP: -40 °C to 85 °C [-40 °F to 185 °F] SMT: -40 °C to 125 °C [-40 °F to 257 °F]
Accuracy	linearity & hysteresis 0.5% typ.	linearity & hysteresis 0.2% typ. (SIP, DIP) linearity, hysteresis & repeatability 0.2% typ. (SMT)	linearity & hysteresis 0.2% typ. (SIP, DIP) linearity, hysteresis & repeatability 0.2% typ. (SMT)
Mounting options	DIP, SMT	SIP, DIP, SMT	SIP, DIP, SMT



SCX Series



SDX Series

Low Pressure Sensors

Signal conditioning	unamplified	unamplified
Pressure range	1 psi to 150 psi	1 psi to 100 psi
Device type	absolute, differential, gage	absolute, differential, gage
Output	mV	mV
Calibrated	yes	yes
Compensated	yes	yes
Operating temperature range	0 °C to 70 °C [32 °F to 158 °F] (compensated)	0 °C to 50 °C [32 °F to 122 °F] (compensated)
Accuracy	linearity & hysteresis 0.3% typ.	linearity & hysteresis 0.25% typ.
Mounting options	SIP	DIP



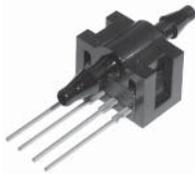
XPC Series



XPX Series

Low Pressure Sensors

Signal conditioning	unamplified	unamplified
Pressure range	1 psi to 150 psi	1 psi to 150 psi
Device type	absolute, differential, gage	absolute, differential, gage
Output	mV	mV
Calibrated	yes	no
Compensated	yes	no
Operating temperature range	0 °C to 70 °C [32 °F to 158 °F] (compensated)	-25 °C to 85 °C [-13 °F to 185 °F]
Accuracy	linearity & hysteresis 1.0% typ.	linearity & hysteresis 1.0% typ.
Mounting options	SIP	SIP



Low Pressure – Flow Through Sensors

24PC Flow-Through

26PC Flow-Through

	24PC Flow-Through	26PC Flow-Through
Signal conditioning	unamplified	unamplified
Pressure range	15 psi to 30 psi	1 psi to 100 psi
Device type	flow-through gage	flow-through gage
Output	mV	mV
Calibrated	no	yes
Compensated	no	yes
Operating temperature range	-40 °C to 85 °C [-40 °F to 185 °F]	0 °C to 50 °C [32 °F to 122 °F] (compensated)
Accuracy	linearity & hysteresis 0.75% typ.	linearity & hysteresis 0.35% typ.
Mounting options	SIP	SIP

calibrated and temperature compensated pressure sensors for the most demanding potential applications such as ventilators, audiometers, air compressors, and chemical analyzers.

XCXL Series.

Features: Calibrated and temperature compensated • Stress isolated package design • Ratiometric output

Benefits: Integrates silicon micromachined sensing technology, temperature compensation, and calibration in industry-standard package. Unique stress isolating design protects against torque induced errors. Additional stability and long-term accuracy improvements gained through simplified compensation techniques which eliminate temperature dependent thermal compensation. Available in commercial performance level for calibration accuracy of offset thermal compensation and linearity, providing added flexibility to meet critical performance budgets.

XPCL Series.

Features: Calibrated and temperature compensated • Cost effective • Small size • Constant voltage excitation • High impedance, low current

Benefits: Integrates silicon micromachined sensing technology, temperature compensation, and calibration in a cost-effective package. Several tube arrangements with nylon housings available for potential pressure applications. Designed for use with non-corrosive, non-ionic pressure media; sensors may also accommodate many potential medical application gases, especially those requiring small size, vacuum, and positive pressure.

XPXL Series.

Features: Cost effective • Small size • Constant voltage excitation • High impedance, low current

Benefits: Integrates silicon micromachined sensing technology in a cost-effective package. Several tube arrangements with nylon housings available for potential pressure applications. High impedance for potential

low power applications. Designed for use with non-corrosive, non-ionic pressure media; sensors may also accommodate many potential medical application gases.

SCXL Series.

Features: Calibrated and temperature compensated • Small size • Low noise • High impedance, low current

Benefits: Designed to provide cost-effective solutions for potential applications requiring enhanced accuracy over very low operating pressure ranges. Calibrated and temperature compensated. Bridge output is ratiometric to supply voltage. High impedance for potential low power applications.

SDX005IND4, SDX010IND4.

Features: Calibrated and temperature compensated • Compact, solvent-resistant case • Cost effective • Small size • Low noise • High impedance, low current • Prime grade available

Benefits: Cost-effective solution for potential pressure applications requiring small size and enhanced performance such as computer peripherals and pneumatic controls. Calibration and compensation designed to provide stable output over temperature range. Bridge output is ratiometric to supply voltage. Small, DIP package allows use of multiple sensors in limited space. Package provides enhanced corrosion resistance and isolation to external stress. Through-hole pins anchor sensor to the PCB to provide secure and stable unit. High impedance for potential low power applications. Intended for use with non-corrosive, non-ionic working fluids, such as air and dry gases.

SXL Series.

Features: Enhanced accuracy, low pressure readings • Cost effective • High impedance bridge • Low noise

Benefits: Cost-effective components for measuring very low pressures. Low power consumption for portable and battery-operated equipment. Intended for use with non-corrosive and non-ionic media, such as air and dry gases in potential medical instrumentation, environmental controls,

and portable monitor applications.

DC Series.

Features: ASIC enhanced • Calibrated and temperature compensated output • Ratiometric or regulated voltage output

Benefits: Combines SURSENSE™ enhanced sensitivity and silicon sensing capabilities with ASIC technology for pressure sensing with enhanced precision and reliability. SURSENSE™ technology provides Dynamic Self Compensation which substantially reduces offset errors due to changes in temperature, warm-up, long-term instability and position sensitivity. Designed to provide ratiometric when operated with fixed 5.0 Vdc. Regulated voltage units also available for applications involving variable supply voltages. Potential applications for use with non-corrosive and non-ionic media such as air and dry gases in medical instrumentation, environmental controls, and portable monitor applications.

DUXL Series.

Features: Non-calibrated and non-temperature compensated • Low profile • Small size • Ratiometric output

Benefits: SURSENSE™ line based upon proprietary, patented technology designed to reduce all output offset or common mode errors. Unique stress concentration enhanced structure provides stable linear output proportional to applied pressure, significantly reducing output offset errors due to changes in temperature, warm-up, long-term stability. Intended for potential applications where customized external signal conditioning is required or available from other sources. Low profile outline often ideal for portable applications where small size is critical such as handheld instrumentation, medical monitors, and level indicators.

LOW PRESSURE SENSORS TruStability™ PRESSURE SENSORS HSC Series.

Features: Industry-leading long-term stability • Extremely tight accuracy of $\pm 0.25\%$ FSS BFSL • Total error band of $\pm 1\%$ full scale span maximum • Miniature 10 mm x 10 mm [0.39 in x

0.39 in] package • Low operating voltage • Extremely low power consumption • Ratiometric 12-bit analog output • Precision ASIC conditioning and temperature compensated over 0 °C to 50 °C [32 °F to 122 °F] temperature range • RoHS compliant • Insensitive to mounting orientation • Also available with I²C or SPI digital output, and in SMT, SIP and DIP packages • Absolute, differential, gage and compound types • Pressure ranges from 60 mbar to 10 bar [1 psi to 150 psi] • Custom calibration available • Various pressure port options

Benefits: The modular and flexible design offers customers a variety of package styles and options, all with the same industry-leading performance specifications. The HSC Series is fully calibrated and temperature compensated for sensor offset, sensitivity, temperature effects, and non-linearity using an on-board Application Specific Integrated Circuit (ASIC). The internal diagnostic functions increase system reliability. Potential medical applications include airflow monitors, anesthesia machines, blood analysis machines, gas chromatography, gas flow instrumentation, kidney dialysis machines, oxygen concentrators, pneumatic controls, respiratory machines, sleep apnea equipment, and ventilators. Potential industrial applications include barometry, flow calibrators, gas chromatography, gas flow instrumentation, HVAC, life sciences, and pneumatic controls.

SSC Series.

Features: Industry-leading long-term stability • Extremely tight accuracy of ±0.25% FSS BFSL • Total error band of ±2% full scale span maximum • Modular and flexible design offer customers a variety of package styles and options, all with the same industry-leading performance specifications • Miniature 10 mm x 10 mm [0.39 in x 0.39 in] package • Low operating voltage • Extremely low power consumption • Ratiometric 12-bit analog output • Precision ASIC conditioning and temperature compensated over -20 °C to 85 °C [-4 °F to 185 °F] temperature range • RoHS compliant • Insensitive to mounting orientation • Also available with I²C or SPI digital output, and in SMT, SIP and DIP packages • Absolute, differential, gage and compound types • Pressure ranges from 60 mbar to 10 bar [1 psi to 150 psi] • Custom calibration available • Various pressure port options

mounting orientation • Internal diagnostic functions increase system reliability • Also available with I²C or SPI digital output, and in SMT, SIP and DIP packages • Absolute, differential, gage and compound types • Pressure ranges from 60 mbar to 10 bar [1 psi to 150 psi] • Custom calibration available • Various pressure port options

Benefits: The modular and flexible design offers customers a variety of package styles and options, all with the same industry-leading performance specifications. The SSC Series is fully calibrated and temperature compensated for sensor offset, sensitivity, temperature effects, and non-linearity using an on-board Application Specific Integrated Circuit (ASIC). The internal diagnostic functions increase system reliability. Potential medical applications include airflow monitors, anesthesia machines, blood analysis machines, gas chromatography, gas flow instrumentation, kidney dialysis machines, oxygen concentrators, pneumatic controls, respiratory machines, sleep apnea equipment, and ventilators. Potential industrial applications include barometry, flow calibrators, gas chromatography, gas flow instrumentation, HVAC, life sciences, and pneumatic controls.

24PC Series.

Features: True wet/wet differential sensing • Miniature package • Operable after exposure to frozen conditions • Choice of termination for gage sensors • DIP and SMT packages

Benefits: Piezoresistive sensing technology designed to provide inherently stable outputs over sensing range. Variety of gage pressure port configurations for quick and easy modification. Reduces sensitivity shift over temperature. Used to measure vacuum or positive pressure in potential medical, environmental, and industrial instrumentation applications.

26PC Series.

Features: Calibrated and temperature compensated • True wet/wet differential sensing • Miniature size • Media flow-through port • Flow path with minimal dead space • Operable after exposure to

frozen conditions • Choice of termination for gage sensors • SIP and DIP packages

Benefits: Piezoresistive sensing technology designed to provide part interchangeability and enhanced performance, reliability and accuracy. Factory-calibrated sensors designed to provide pressure sensing performance with enhanced precision and reliability in a miniature package. Variety of gage pressure port configurations designed to provide quick and easy modification. Used to measure vacuum or positive pressure in potential medical, environmental, and industrial instrumentation applications.

ASDX Series.

Features: Calibrated and temperature compensated • ASIC-enhanced output • Analog output with 12-bit resolution • 12-bit digital output (I²C- or SPI-compatible protocol) • Ratiometric output • Enhanced response time and accuracy • DIP package • Cost effective

Benefits: Fully calibrated and temperature compensated with on-board ASIC designed to provide digital correction of sensor offset, sensitivity, temperature coefficients, and non-linearity. Analog output ratiometric with supply voltage over compensated supply range with 12-bit resolution. 12-bit I²C- or SPI-compatible protocol allows easy interfacing to most commonly used microcontrollers and microprocessors without additional components and electronic circuitry. Output is corrected pressure value in hexadecimal format with 12-bit accuracy (unsigned) and not ratiometric to the supply voltage. Offers high level output on a cost-effective basis. Intended for use with non-corrosive, non-ionic working fluids such as air and dry gases in potential applications such as flow calibrators, ventilation and air flow monitors, gas flow instrumentation, sleep apnea monitoring, and therapy equipment.

CPC Series.

Features: Calibrated and temperature compensated • Cost effective • Small size • Constant voltage excitation • High impedance, low current

Benefits: Integrates silicon micromachined sensing technology, calibration and temperature compensation in a low profile, cost-effective package for potential medical applications requiring small size. Designed for use with non-corrosive, non-ionic pressure media; accommodates many gases used in potential medical applications. Some listings accommodate pressure measurements in tube applications.

CPX Series.

Features: Non-calibrated and non-temperature compensated • Cost effective • Small size • Constant voltage excitation • High impedance, low current

Benefits: Integrates silicon micromachined sensing technology, temperature compensation, and calibration in a cost-effective package. Designed for use with non-corrosive, non-ionic pressure media; also accommodates many gases used in potential medical applications, especially those requiring vacuum reference.

HPX Series.

Features: Miniature size • Two package styles: through-hole mounting and surface mount • Wide operating temperature range • Enhanced response time • Easy to use

Benefits: Easy to use, miniature size, cost effective, accurate sensing in two package configurations. Gage is 6-pin DIP, absolute is 8-pin surface mount, small outline integrated circuit package. Ratiometric output for proven application flexibility. Designed for use with non-corrosive, non-ionic working fluids such as air and dry gases in potential applications such as medical equipment, altimeters and barometers, pneumatic controls, leak detection, and consumer goods.

SCC Series.

Features: Temperature compensated • Reduced cost • Small size • Three package types

Benefits: Designed for potential applications where sensing element is integral to OEM equipment. Packaged in standard, cost-effective chip carrier

“button” package, plastic ported “N” package, DIP, and SMT packages. Packages may be O-ring sealed, epoxied, and/or clamped onto a pressure fitting. Closed-bridge four-pin SIP configuration for electrical connection to “button, or “N” package. DIP package mounts on PC board with through-hole pins, like standard IC. Extremely small size allows multiple sensors in limited space. Designed for use with non-corrosive, non-ionic media, such as air and dry gases in potential applications such as automotive diagnostics, dental equipment and environmental controls.

SX Series.

Features: Cost effective • Small size • Three package types • High-impedance bridge • Low noise • Low power consumption for battery power

Benefits: Designed for potential applications where sensing element is integral to OEM equipment. Packaged in standard, cost-effective chip carrier “button” package, plastic ported “N” package, DIP, and SMT packages. Packages may be O-ring sealed, epoxied, and/or clamped onto a pressure fitting. Closed-bridge four-pin SIP configuration for electrical connection to “button, or “N” package. DIP package mounts on PC board with through-hole pins, like standard IC. Extremely small size allows multiple sensors in limited space. Designed for use with non-corrosive, non-ionic media such as air and dry gases in potential applications such as medical instrumentation, barometric measurement, and battery powered equipment.

SCX Series.

Features: Cost effective • Calibrated and temperature compensated • Small size • Low noise • Enhanced accuracy • High impedance for low power applications • Corrosion resistant

Benefits: Cost-effective solution for potential pressure applications requiring operation over wide temperature range. Output with enhanced accuracy and stability. Integrated circuit sensor element and laser trimmed thick film ceramic housed in compact, solvent-resistant

case. Housing provides enhanced corrosion resistance and isolation from external packaging stresses. Convenient mounting holes and pressure ports for use with standard plastic tubing. Two pins provide output voltage proportional to temperature available for use with external circuitry. Enhanced response time for potential computer peripherals and pneumatic control applications. Used with non-corrosive, non-ionic working fluids such as air and dry gases in potential medical equipment applications.

SDX Series.

Features: Cost effective • Calibrated and temperature compensated • Small size • Low noise • High impedance for low power applications • Corrosion resistant • Available in two grades

Benefits: Cost-effective solution for potential applications requiring small size plus performance. Enhanced accuracy and stability output over temperature range. Available in standard commercial and prime grades for optimization of accuracy and cost in a given application. Integrated circuit sensor element and laser trimmed thick film ceramic housed in compact, solvent-resistant case. Housing provides enhanced corrosion resistance and isolation from external package stress. Extremely small size allows multiple sensors in limited space. Through-hole pins for secure and stable anchoring to PCB. Used with non-corrosive, non-ionic working fluids such as air and dry gases in potential medical equipment, computer peripherals, and pneumatic control applications.

XPC Series.

Features: Calibrated and temperature compensated • Cost effective • Small size • Constant voltage excitation • High impedance, low current

Benefits: Integrates silicon micromachined sensing technology, temperature compensation, and calibration in a cost-effective package. Several tube arrangements with nylon housings available for potential pressure applications. Designed for use with non-corrosive, non-ionic pressure media;

sensors may accommodate many potential medical application gases, especially those requiring small size, vacuum, and positive pressure.

XPX Series.

Features: Cost effective • Small size • Constant voltage excitation • High impedance, low current

Benefits: Integrates silicon micromachined sensing technology, temperature compensation, and calibration in a cost-effective package. Several tube arrangements with nylon housings available for potential pressure applications. Designed for use with non-corrosive, non-ionic pressure media; sensors may also accommodate many potential medical application gases, especially those requiring small size, vacuum, and positive pressure.

LOW PRESSURE – FLOW THROUGH SENSORS

24PC Flow-Through Series.

Features: Miniature package • Media flow-through port • 1,78 mm [0.070 in] diameter or 5,0 mm [0.200 in] diameter flow path with minimal dead space • Operable after exposure to frozen conditions • Choice of termination for gage sensors

Benefits: Gage pressure sensing performance in miniature package with enhanced reliability. Sensing technology designed to use specialized piezoresistive micro-machined sensing element. Low power, non-amplified, non-compensated Wheatstone bridge circuit design often provides inherently stable mV outputs. 2 mA constant current excitation significantly reduces sensitivity shift over temperature. May be used to measure vacuum or positive pressure in potential medical and environmental applications.

26PC Flow-Through Series.

Features: Calibrated and temperature compensated • Miniature package • Media flow-through port • 1,78 mm [0.070 in] diameter or 5,0 mm [0.200 in] diameter flow path with minimal dead space • Operable after exposure to frozen conditions • Choice of termination for gage sensors

Benefits: Gage pressure sensing performance in miniature package with enhanced reliability. Sensing technology designed to use specialized piezoresistive micro-machined sensing element. Low power, non-amplified, non-compensated Wheatstone bridge circuit design often provides inherently stable mV outputs. 2 mA constant current excitation significantly reduces sensitivity shift over temperature. May be used to measure vacuum or positive pressure in potential medical and environmental applications.

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- 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.

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- Complete installation, operation and maintenance information is provided in the instructions supplied with each product.

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