

The pressure is on. The answer is here. No matter the need, Honeywell Sensing and Control (S&C) has the microstructure, plastic 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, centrofusion 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 ASDXL Series.

Features: Calibrated and temperature compensated • ASIC-enhanced output

- Analog output with 11-bit resolution
- Ratiometric output Enhanced response time Enhanced accuracy DIP package

Benefits: 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 11-bit resolution. Intended for use with non-corrosive, non-ionic working fluids such as air and dry gases in potential medical equipment and HVAC and pneumatic controls applications.

ASDXL DO Series.

Features: 12-bit digital output (I²C compatible protocol) ● ASIC-enhanced output ● Calibrated and temperature compensated output ● Enhanced response time ● Enhanced accuracy ● DIP package

Benefits: On-board ASIC designed to provide digital correction of sensor

offset, sensitivity, temperature coefficients and non-linearity. 12-bit I²C compatible protocol interface allows easy interfacing to most commonly used microcontrollers and microprocessors. Output is corrected pressure value in hexadecimal format with 12-bit accuracy (unsigned) and not ratiometric to the supply voltage. Intended for use with non-corrosive, non-ionic working fluids such as air and dry gases in potential medical equipment and HVAC and pneumatic controls applications.

CPCL Series.

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

Benefits: Integrates silicon micromachined sensing technology, temperature compensation, and calibration in reduced-cost 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: Small size • Reduced cost • Constant voltage excitation • High impedance, low current

Benefits: Integrates silicon micromachined sensing technology, temperature compensation, and calibration in reduced-cost 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, continued on page 9

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 bar to 17.24 bar (0 psi to 250 psi). 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

	ASDXL Series	ASDXL DO Series
Signal conditioning	amplified	amplified
Pressure range	0 in to ± 5 in H ₂ 0, 0 in to 10 in H ₂ 0, 0 in to ± 10 in H ₂ 0	0 in to ± 5 in H_2O , 0 in to 10 in H_2O , 0 in to ± 10 in H_2O
Device type	differential, gage, bidirectional gage	differential, bidirectional gage
Output	V	digital
Calibrated	yes	yes
Temperature compensated	yes	yes
Operating temperature range	0 °C to 85 °C [32 °F to 185 °F] (compensated)	0 °C to 85 °C [32 °F to 185 °F] (compensated)





Pressure Sensors	*//	*//
	CPCL Series	CPXL Series
Signal conditioning	unamplified	unamplified
Pressure range	0 in to 4 in $\rm H_2O$, 0 in to 10 in $\rm H_2O$	0 in to 4 in $\rm H_2O$, 0 in to 10 in $\rm H_2O$
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]

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Ultra-Low

Ultra-Low







Pressure Sensors		•		~ /
_	DCXL-DS	XCAL Series	XCXL Series	XPC Series
Signal conditioning	unamplified	amplified	unamplified	unamplified
Pressure range	0 in to 1 in H_2O , 0 in to 5 in H_2O , 0 in to 10 in H_2O , 0 in to 20 in H_2O , 0 in to 30 in H_2O	0 in to 10 in H ₂ 0	0 in to 4 in $\rm H_2O$, 0 in to 10 in $\rm H_2O$	0 psi to 150 psi (inclusive)
Device type	differential	differential	differential	absolute, differential, gage
Output	mV	mV	mV	mV
Calibrated	yes	yes	yes	yes
Temperature compensated	yes	yes	yes	yes
Operating temperature range	-25 °C to 85 °C [-13 °F to 185 °F]	0 °C to 50 °C [32 °F to 122 °F] (compensated)	0 °C to 70 °C [32 °F to 158 °F] (compensated)	0 °C to 70 °C [32 °F to 158 °F] (compensated)







Pressure Sensors	*/	• /	*/
	XPCL Series	XPX Series	XPXL Series
Signal conditioning	unamplified	unamplified	unamplified
Pressure range	0 in to 4 in H_2 0, 0 in to 10 in H_2 0	0 psi to 150 psi (inclusive)	0 in to 4 in H ₂ O, 0 in to 10 in H ₂ O
Device type	differential, gage	absolute, differential, gage	differential, gage
Output	mV	mV	mV
Calibrated	yes	no	no
Temperature compensated	yes	no	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]	-25 °C to 85 °C [-13 °F to 185 °F]





Ultra-Low Pressure Sensors

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	SCXL Series	SDX010IND4	
Signal conditioning	unamplified	unamplified	
Pressure range	0 in to 4 in $\rm H_2O$, 0 in to 10 in $\rm H_2O$	0 in to 10 in H ₂ 0	
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)	







Ultra-Low Pressure Sensors

Pressure Sensors		•	*
_	SXL Series	DC Series	DUXL Series
Signal conditioning	unamplified	amplified	unamplified
Pressure range	0 in to 10 in H ₂ 0	0 in to 1 in $\rm H_2O$, 0 in to 2 in $\rm H_2O$ 0 in to 5 in $\rm H_2O$, 0 in to 10 in $\rm H_2O$ 0 in to 20 in $\rm H_2O$, 0 in to 30 in $\rm H_2O$	0 in to 1 in $\rm H_2O$, 0 in to 2 in $\rm H_2O$ 0 in to 5 in $\rm H_2O$, 0 in to 10 in $\rm H_2O$ 0 in to 20 in $\rm H_2O$, 0 in to 30 in $\rm H_2O$
Device type	differential, gage	differential, gage	differential, gage
Output	mV	Vdc	mV
Calibrated	no	yes	yes
Temperature compensated	no	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)	-25 °C to 85 °C [-13 °F to 185 °F] (compensated)

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Low Pressure Sensors

3013013			
	24PC Series	26PC Series	
Signal conditioning	unamplified	unamplified	
Pressure range	0.5 psi to 250 psi (inclusive)	1 psi to 250 psi (inclusive)	
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)	





Low Pressure

Sensors	•	
	ASCX Series	ASDX Series
Signal conditioning	amplified	amplified
Pressure range	0 psi to 150 psi (inclusive)	0 psi to 1 psi, 0 psi to 5 psi, 0 psi to 15 psi, 0 psi to 30 psi
Device type	absolute, differential, gage	absolute, differential, gage, bidirectional
Output	Vdc	Vdc
Calibrated	yes	yes
Compensated	yes	yes
Operating temperature range	0 °C to 70 °C [32 °F to 158 °F] (compensated)	0 °C to 85 °C [32 °F to 185 °F] (compensated)









Low Pressure

Sensors		1	~	~
_	ASDX Series	ASDX DO Series	CPC Series	CPX Series
Signal conditioning	amplified	amplified	unamplified	unamplified
Pressure range	0 in to ± 5 in H_2O , 0 in to 10 in H_2O , 0 in to ± 10 in H_2O	0 psi to 1 psi, 0 psi to 5 psi, 0 psi to 15 psi, 0 psi to 30 psi	0 psi to 150 psi (inclusive)	0 psi to 150 psi (inclusive)
Device type	differential, gage, bidirectional gage	absolute, differential, gage, bidirectional	absolute, differential, gage	absolute, differential, gage
Output	V	digital	mV	mV
Calibrated	yes	yes	yes	no
Compensated	yes	yes	yes	no
Operating temperature range	0 °C to 85 °C [32 °F to 185 °F] (compensated)	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]







Low Pressure

Sensors	P .		
	HPX Series	SCC Series	SX Series
Signal conditioning	unamplified	unamplified	unamplified
Pressure range	0 psi to 100 psi (inclusive)	0 psi to 100 psi (inclusive)	0 psi to 150 psi (inclusive)
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)	-40 °C to 85 °C [-40 °F to 185 °F]

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Low Pressure

Sensors		
_	SCX Series	SDX Series
Signal conditioning	unamplified	unamplified
Pressure range	0 psi to 150 psi (inclusive)	0 psi to 100 psi (inclusive)
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)





Low Pressure – Surface Mount Sensors

Surface Mount Sensors		
	24PC SMT Series	26PC SMT Series
Signal conditioning	unamplified	unamplified
Pressure range	1 psi, 5 psi, 15 psi	1 psi, 5 psi, 15 psi
Device type	wet-wet differential, gage, vacuum gage	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)





Low Pressure – Surface Mount Sensors

Surface Mount Sensors		
	SCC SMT Series	SX SMT Series
Signal conditioning	unamplified	unamplified
Pressure range	1 psi to 150 psi (inclusive)	1 psi to 150 psi (inclusive)
Device type	absolute, gage	absolute, gage
Output	mV	mV
Calibrated	no	no
Compensated	yes	no
Operating temperature range	0 °C to 50 °C [32 °F to 122 °F] (compensated)	-40 °C to 125 °C [-40 °F to 257 °F]





Low Pressure – Flow Through Sensors

Flow Hillough Sensors		
, ,	24PC Flow-Through	26PC Flow-Through
Signal conditioning	unamplified	unamplified
Pressure range	15 psi, 30 psi	1 psi to 100 psi (inclusive)
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)

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 • Reduced cost • Constant voltage excitation • Ratiometric output

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

XPC Series.

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

Benefits: Integrates silicon micromachined sensing technology, temperature compensation, and calibration in reduced-cost 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.

XPCL Series.

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

Benefits: Integrates silicon micromachined sensing technology, temperature compensation, and calibration in reduced-cost 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.

XPX Series.

Features: Reduced cost ● Small size • Constant voltage excitation • High impedance, low current

Benefits: Integrates silicon micromachined sensing technology, temperature compensation, and calibration in reduced-cost 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 reduced-cost 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.

SDX010IND4.

Features: Calibrated and temperature compensated • Compact, solvent-resistant case • Reduced cost • 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 noncorrosive, 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: Low-cost 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, warmup, 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: Calibrated and 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 24PC Series.

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

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.

ASCX Series.

Features: Calibrated and temperature compensated • Small size • Low power • Field interchangeable

Benefits: Integrates circuit sensor element and laser trimmed thick film ceramic housed in compact, solvent-resistant case. Fully calibrated and temperature compensated. Package designed to provide corrosion resistance and isolation to external packaging stresses. Convenient mounting holes and pressure ports easy to use with standard plastic tubing for pressure connection. Enhanced response time for use with potential computer peripherals and pneumatic control applications. Used with non-corrosive, non-ionic working fluids such as air and dry gases.

ASDX Series.

Features: ASIC-enhanced output
Calibrated and temperature
compensated • Enhanced accuracy
Enhanced response time • Cost-effective

Benefits: Fully calibrated and temperature compensated with on-board ASIC for use in potential applications such as flow calibrators, ventilation and air flow monitors, gas flow instrumentation, sleep apnea monitoring, and therapy equipment. Offers high level output on a cost-effective basis. Used with non-corrosive, non-ionic working fluids such as air and dry gases.

ASDX DO Series.

Features: I²C-compatible protocol

• ASIC-enhanced output • Calibrated and temperature compensated • Enhanced accuracy • Enhanced response time

Benefits: I²C-compatible protocol for easy interfacing to most commonly used microcontrollers and microprocessors without additional components and electronic circuitry. Fully calibrated and temperature compensated with on-board ASIC for use in potential applications such as flow calibrators, ventilation and air flow monitors, gas flow instrumentation, sleep apnea monitoring, and therapy equipment. Designed to provide digital correction of sensor offset, sensitivity, temperature coefficients, and non-linearity. Used with non-corrosive, non-ionic working fluids such as air and dry gases.

CPC Series.

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

Benefits: Integrates silicon micromachined sensing technology, calibration and temperature compensation in a low profile, low-cost 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: Cost effective ● Small size • Constant voltage excitation ● High impedance, low current

Benefits: Integrates silicon micromachined sensing technology, temperature compensation, and calibration in a reduced-cost package. Designed for use with non-corrosive, nonionic 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, reduced cost, 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 noncorrosive, 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 either standard reduced-cost chip carrier "button" package, plastic ported "N" package, or DIP package. 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 either standard low-cost chip carrier "button" package, plastic ported "N" package, or DIP package. Packages may be O-ring sealed, epoxied, and/or clamped onto a pressure fitting. Closedbridge 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. Though-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.

LOW PRESSURE – SURFACE MOUNT SENSORS 24PC SMT Series.

Features: Compact surface mount profile

- True wet/wet differential sensing
- Pick-up feature Maximum peak reflow temperature of 260 °C [500 °F] End point calibration Elastomeric construction
- Wide operating temperature range

Benefits: Designed for use with other SMT components on PCB, helping to reduce installation costs and eliminate secondary operations. Wheatstone bridge construction, silicon piezoresistive technology, and ratiometric output for application flexibility and design simplicity. Alignment pins for position accuracy. 3,18

mm [0.125 in] diameter pick-up feature for pick and place machines. Designed for potential medical applications, may also be applied in almost any potential application requiring surface mount pressure sensor.

26PC SMT Series.

Features: Calibrated and temperature compensated ● True wet/wet differential sensing ● Compact surface mount profile ● Pick-up feature ● Maximum peak reflow temperature of 260 °C [500 °F] ● End point calibration ● Elastomeric construction

Wide operating temperature range

Benefits: Calibrated and temperature compensated for use with other SMT components on PCB, helping to reduce installation costs and eliminate secondary operations. Wheatstone bridge construction, silicon piezoresistive technology, and ratiometric output for application flexibility and design simplicity. Alignment pins for position accuracy. 3,18 mm [0.125 in] diameter pick-up feature for pick and place machines. Designed for potential medical application, may also be applied in almost any potential application

SCC SMT Series.

Features: Temperature compensation
• Low cost • Small size • High impedance bridge • Low power consumption

requiring surface mount pressure sensor.

• Lidded or ported versions

Benefits: Reduced cost with temperature stable output when driven with constant current source. Designed for extremely cost-sensitive potential applications where precise accuracy over wide temperature range is not required such as altimeters, pneumatic controls, and battery powered equipment. Standard version features low profile plastic lid to better withstand high temperatures; optional ported version has tube attachment port useful in potential gage applications. 4-pin closed bridge configuration for electrical connection with additional pads provided for mechanical support. Used with clean dry gases.

SX SMT Series.

Features: Reduced cost • Small size • High impedance bridge • Low power consumption • Lidded or ported versions

Benefits: Standard version features low profile plastic lid to better withstand high temperatures; optional ported version has tube attachment port useful in potential gage applications. 4-pin closed bridge configuration for electrical connection with additional pads provided for mechanical support. Potential applications include automotive diagnostics, medical and dental equipment, instrumentation, and battery powered equipment.

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.

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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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.

A 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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Notes