



Board Mount Pressure Sensors Line Guide

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 TruStability® HSC Series.

Features: Proprietary Honeywell technology • Industry-leading long-term stability, Total Error Band, and accuracy • High burst pressures • High working pressure ranges • Industry-leading flexibility • Excellent repeatability • Onboard signal conditioning • Wide variety of pressure ranges • Meets IPC/JEDEC J-STD-020D.1 Moisture Sensitivity Level 1 requirements • Insensitive to mounting orientation • Custom calibration • Insensitive to vibration • Internal diagnostic functions • Energy efficient • I²C- or SPI-compatible digital output or analog output • Small size • RoHS compliant • Protected by multiple global patents • Intended for use with non-corrosive, non-ionic working fluids

Benefits: Proprietary Honeywell technology combines high sensitivity with high overpressure and burst pressure to give the customer more flexibility in sensor implementation and reduce the customer design requirements for protecting the sensor without sacrificing the ability to sense very small changes in pressure. Industry-leading long-term stability minimizes system calibration needs, maximizes system performance, and helps support system uptime

by eliminating the need to service or replace the sensor during its application life. Industry-leading Total Error Band provides the sensor's true accuracy over a compensated temperature range of 0 °C to 50 °C [32 °F to 122 °F], eliminating individual sensor testing and calibration (which can increase manufacturing time and process) supporting system accuracy and warranty requirements, helping optimize system uptime, and providing excellent sensor interchangeability. Industry-leading accuracy reduces software needed to correct system inaccuracies, minimizing system design time, supporting system accuracy and warranty requirements, and helping to optimize system uptime. High burst pressures above 415 inH₂O (1034 mbar) allow the sensor to endure a wide range of conditions while maintaining a high level of sensitivity which measures even the smallest change in pressure, simplifying the design process. High working pressure ranges above 135 inH₂O (336 mbar) allow the sensors to be used continuously well above the calibrated pressure range. Modular, flexible design with many package styles (with the same industry-leading stability), pressure ports, and options simplify integration into the device manufacturer's

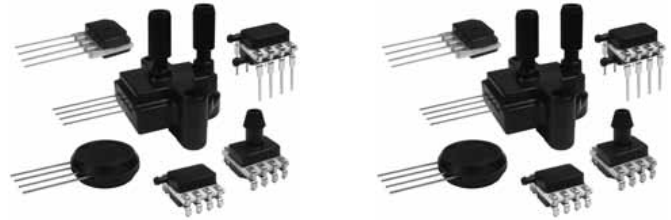
application. Onboard signal conditioning typically allows for the removal of signal conditioning components from the PCB, reducing costs and simplifying production processes. Pressure ranges from ±2.5 mbar to ±40 mbar [±1 inH₂O to ±30 inH₂O] provide support for many unique applications. Meets IPC/JEDEC J-STD-020D.1 Moisture Sensitivity Level 1 requirements which allows the customer to avoid the thermal and mechanical damage during solder reflow attachment and/or repair that lesser rated products would incur, and allows unlimited floor life when stored as specified (<30 °C/ 85 %RH), simplifying storage and reducing scrap. Customers may position the sensor in the most optimal point in the system, eliminating concern for positional effects. Reduced susceptibility to application-specific vibration that occurs with changes in pressure minimizes inaccurate pressure readings. Custom calibration typically allows for the removal of additional components associated with signal conditioning from the PCB, reducing PCB size as well as costs often associated with those components. Internal diagnostic functions increase system reliability. Extremely low power consumption (less than 10 mW, typ.), provides extended battery life,

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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	TruStability® HSC Series	TruStability® SSC Series
Signal conditioning	amplified	amplified
Pressure range	±2.5 mbar to ±40 mbar [±1 inH ₂ O to ±30 inH ₂ O]	±2.5 mbar to ±40 mbar [±1 inH ₂ O to ±30 inH ₂ O]
Device type	differential, gage	differential, gage
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	0 °C to 50 °C [32 °F to 120 °F] (compensated)	-20 °C to 85 °C [-4 °F to 185 °F] (compensated)
Total error band	±1 %FFS to ±3 %FFS depending on pressure range	±2 %FFS to ±5 %FFS depending on pressure range
Accuracy	±0.25 %FSS BFSL	±0.25 %FSS BFSL
Mounting options	DIP, SIP, SMT	DIP, SIP, SMT



Ultra-Low Pressure Sensors	CPCL Series	CPXL Series
Signal conditioning	unamplified	unamplified
Pressure range	4 inH ₂ O to 10 inH ₂ O	4 inH ₂ O to 10 inH 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]
Total error band	-	-
Accuracy	linearity and hysteresis 0.5% typ.	linearity and hysteresis 0.5% typ.
Mounting options	SIP	SIP



Ultra-Low Pressure Sensors

	ASDX Series	DCXL-DS	XCXL Series
Signal conditioning	amplified	unamplified	unamplified
Pressure range	±5 inH ₂ O, ±10 inH ₂ O	±1 inH ₂ O to ±10 inH ₂ O	±4 inH ₂ O to ±10 inH ₂ O
Device type	absolute, differential, bidirectional gage	differential	differential
Output	analog (Vdc), digital (I ² C or SPI)	mV	mV
Calibrated	yes	yes	yes
Temperature compensated	yes	yes	yes
Operating temperature range	0 °C to 85 °C [32 °F to 185 °F] (compensated)	0 °C to 50 °C [32 °F to 122 °F] (compensated)	0 °C to 70 °C [32 °F to 158 °F] (compensated)
Total error band	±2.0 %FSS max.	-	-
Accuracy	-	linearity and hysteresis 0.2% typ.	linearity and hysteresis 0.5% typ.
Mounting options	DIP	SIP	SIP



Ultra-Low Pressure Sensors

	XPCL Series	XPXL Series
Signal conditioning	unamplified	unamplified
Pressure range	4 inH ₂ O to 10 inH ₂ O	4 inH ₂ O to 10 inH 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]
Total error band	-	-
Accuracy	linearity and hysteresis 0.5% typ.	linearity and 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 inH ₂ O to 10 inH ₂ O	±5 inH ₂ O to ±10 inH 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)
Total error band	-	-
Accuracy	linearity and hysteresis 0.2% typ.	linearity and hysteresis 0.2% typ.
Mounting options	SIP	DIP



Ultra-Low Pressure Sensors

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



Low Pressure Sensors

TruStability® HSC Series

TruStability® SSC Series

TruStability® NSC Series

Signal conditioning	amplified	amplified	unamplified
Pressure range	60 mbar to 10 bar [1 psi to 150 psi]	60 mbar to 10 bar [1 psi to 150 psi]	60 mbar to 10 bar [1 psi to 150 psi]
Device type	absolute, differential, gage	absolute, differential, gage	absolute, differential, gage
Output	analog (Vdc) or digital (I ² C or SPI)	analog (Vdc) or digital (I ² C or SPI)	mV
Calibrated	yes	yes	no
Compensated	yes	yes	no
Operating temperature range	0 °C to 50 °C [32 °F to 122 °F] (compensated)	-20 °C to 85 °C [-4 °F to 185 °F] (compensated)	-40 °C to 85 °C [-40 °F to 185 °F] (uncompensated)
Total error band	±1 %FSS	±2 %FSS	-
Accuracy	±0.25 %FSS BFLS	±0.25 %FSS BFLS	±0.25 %FSS BFLS
Mounting options	DIP, SIP, SMT	DIP, SIP, SMT	DIP, SIP, SMT



Low Pressure Sensors

Basic NBP Series

24PC Series

26PC Series

Signal conditioning	unamplified	unamplified	unamplified
Pressure range	60 mbar to 10 bar [1 psi to 150 psi]	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, gage	absolute, differential, wet-wet differential, gage, vacuum gage	differential, wet-wet differential, gage, vacuum gage
Output	mV	mV	mV
Calibrated	no	no	yes
Compensated	no	no	yes
Operating temperature range	-40 °C to 125 °C [-40 °F to 257 °F]	-40 °C to 85 °C [-40 °F to 185 °F]	0 °C to 50 °C [32 °F to 122 °F] (compensated)
Total error band	-	-	-
Accuracy	±0.25 %FSS BFLS	linearity & hysteresis 0.5% typ.	linearity & hysteresis 0.5% typ.
Mounting options	DIP, leadless SMT, SMT	DIP, SIP, SMT	DIP, SIP, SMT

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Low Pressure Sensors

ASDX Series

CPC Series

Signal conditioning	amplified	unamplified
Pressure range	1 psi to 100 psi	1 psi to 150 psi
Device type	absolute, differential, gage, bidirectional	absolute, differential, gage
Output	analog (Vdc), digital (I ² C or SPI)	mV
Calibrated	yes	yes
Compensated	yes	yes
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)
Total error band	±2.0% FSS max.	-
Accuracy	-	linearity and hysteresis 0.5% typ.
Mounting options	DIP	SIP



Low Pressure Sensors

SCC Series

SX Series

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	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]
Total error band	-	-
Accuracy	linearity, hysteresis and repeatability 0.2% typ.	linearity, hysteresis and repeatability 0.2% typ.
Mounting options	SMT	SMT



SCX Series



SDX Series

Low Pressure Sensors

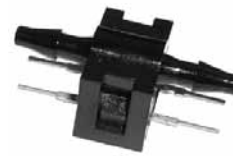
Signal conditioning	unamplified	unamplified
Pressure range	1 psi to 150 psi	1 psi to 100 psi
Device type	absolute, differential, gage	absolute, differential, gage
Output	mV	mV
Calibrated	yes	yes
Compensated	yes	yes
Operating temperature range	0 °C to 70 °C [32 °F to 158 °F] (compensated)	0 °C to 50 °C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



XPC Series

Low Pressure Sensors

Signal conditioning	unamplified
Pressure range	1 psi to 150 psi
Device type	absolute, differential, gage
Output	mV
Calibrated	yes
Compensated	yes
Operating temperature range	0 °C to 70 °C [32 °F to 158 °F] (compensated)
Total error band	-
Accuracy	linearity and hysteresis 1.0% typ.
Mounting options	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)
Total error band	-	-
Accuracy	linearity and hysteresis 0.75% typ.	linearity and hysteresis 0.35% typ.
Mounting options	SIP	SIP

and promotes energy efficiency. I²C- or SPI-compatible 14-bit digital output (min. 12-bit sensor resolution) accelerates performance through reduced conversion requirements and the convenience of direct interface to microprocessors or microcontrollers; analog output also available. Miniature 10 mm x 10 mm [0.39 in x 0.39 in] package is very small when compared to most board mount pressure sensors. Potential applications include medical (ventilators, anesthesia machines, spirometers, nebulizers, hospital room air pressure) and industrial (VAV (Variable Air Volume) control, static duct pressure, clogged HVAC (Heating, Ventilation, and Air Conditioning) filter detection, HVAC transmitters indoor air quality).

TruStability® SSC Series.

Features: Proprietary Honeywell technology • Industry-leading long-term stability, Total Error Band, and accuracy • High burst pressures • High working pressure ranges • Industry-leading flexibility • Excellent repeatability • Onboard signal conditioning • Wide variety of pressure ranges • Meets IPC/JEDEC J-STD-020D.1 Moisture Sensitivity Level 1 requirements • Insensitive to mounting orientation • Custom calibration • Insensitive to vibration • Internal diagnostic functions • Energy efficient • I²C- or SPI-compatible digital output or analog output • Small size • RoHS compliant • Protected by multiple global patents • Intended for use with non-corrosive, non-ionic working fluids

Benefits: Proprietary Honeywell technology combines high sensitivity with high overpressure and burst pressure to give the customer more flexibility in sensor implementation and reduce the customer design requirements for protecting the sensor without sacrificing the ability to sense very small changes in pressure. Industry-leading long-term stability minimizes system calibration needs, maximizes system performance, and helps support system uptime by eliminating the need to service or replace the sensor during its application life. Industry-leading Total Error Band provides the sensor's true accuracy over a compensated temperature range of -20

°C to 85 °C [-4 °F to 185 °F], eliminating individual sensor testing and calibration (which can increase manufacturing time and process) supporting system accuracy and warranty requirements, helping optimize system uptime, and providing excellent sensor interchangeability. Industry-leading accuracy reduces software needed to correct system inaccuracies, minimizing system design time, supporting system accuracy and warranty requirements, and helping to optimize system uptime. High burst pressures above 415 inH₂O (1034 mbar) allow the sensor to endure a wide range of conditions while maintaining a high level of sensitivity which measures even the smallest change in pressure, simplifying the design process. High working pressure ranges above 135 inH₂O (336 mbar) allow the sensors to be used continuously well above the calibrated pressure range. Modular, flexible design with many package styles (with the same industry-leading stability), pressure ports, and options simplify integration into the device manufacturer's application. Onboard signal conditioning typically allows for the removal of signal conditioning components from the PCB, reducing costs and simplifying production processes. Pressure ranges from ±2.5 mbar to ±40 mbar [±1 inH₂O to ±30 inH₂O] provide support for many unique applications. Meets IPC/JEDEC J-STD-020D.1 Moisture Sensitivity Level 1 requirements which allows the customer to avoid the thermal and mechanical damage during solder reflow attachment and/or repair that lesser rated products would incur, and allows unlimited floor life when stored as specified (<30 °C/85 %RH), simplifying storage and reducing scrap. Customers may position the sensor in the most optimal point in the system, eliminating concern for positional effects. Reduced susceptibility to application-specific vibration that occurs with changes in pressure minimizes inaccurate pressure readings. Custom calibration typically allows for the removal of additional components associated with signal conditioning from the PCB, reducing PCB size as well as costs often associated with those components. Internal diagnostic

functions increase system reliability. Extremely low power consumption (less than 10 mW, typ.) reduces power consumption, provides extended battery life, and promotes energy efficiency. I²C- or SPI-compatible 14-bit digital output (min. 12-bit sensor resolution) accelerates performance through reduced conversion requirements and the convenience of direct interface to microprocessors or microcontrollers; analog output also available. Miniature 10 mm x 10 mm [0.39 in x 0.39 in] package is very small when compared to most board mount pressure sensors. Potential applications include medical (ventilators, anesthesia machines, spirometers, nebulizers, hospital room air pressure) and industrial (VAV (Variable Air Volume) control, static duct pressure, clogged HVAC (Heating, Ventilation, and Air Conditioning) filter detection, HVAC transmitters indoor air quality).

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.

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.

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.

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.

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® HSC Series.

Features: Industry-leading long-term stability • Extremely tight accuracy of ± 0.25 %FSS BFSL • Total error band of ± 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, and gage types • Pressure ranges from 60 mbar to 10 bar [1 psi to 150 psi] • Custom calibration available • Various pressure port options • Liquid media option

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. These sensors are intended for use with

non-corrosive, non-ionic gases, such as air and other dry gases, as well as non-corrosive, non-ionic liquids. 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.

TruStability® 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 • 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
• Liquid media option

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. These sensors are intended for use with

non-corrosive, non-ionic gases, such as air and other dry gases, as well as non-corrosive, non-ionic liquids. 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.

TruStability® NSC Series.

Features: Industry-leading long-term stability, accuracy and flexibility • Small size • Excellent repeatability • Extremely low power consumption • Low operating voltage • Sensitive • Virtually insensitive to mounting orientation • Ratiometric analog output • Infinite resolution • Fast response time • RoHS compliant

Benefits: Allows customers the flexibility of sensor self-calibration. Industry-leading long-term stability minimizes system calibration needs and maximizes system performance. Industry-leading accuracy reduces software needed to correct system inaccuracies, minimizing system design time. Industry-leading flexibility, due to numerous package styles, pressure ports, and options, which simplifies integration into the device manufacturer's application. Single side liquid media option allows the end customer to use one port of the sensor with condensing humidity or directly with non-corrosive liquid media. Miniature 10 mm x 10 mm [0.39 in x 0.39 in] package is very small when compared to most board mount pressure sensors. Provides excellent repeatability, high accuracy and reliability under many demanding conditions. Extremely low power consumption (operating supply voltage as low as 1.8 Vdc) which reduces power consumption, provides extended battery life and promotes energy efficiency. Sensitive: meets specified pressure level requirements, providing

enhanced sensitivity and accuracy over the range. Potential medical applications include respiratory breathing circuits such as nebulizers, spirometers and patient monitoring; hospital gas supply; and precise sampling/gas flow such as blood analysis, gas chromatography and analytical instrument sampling systems. Potential industrial applications include pneumatic components such as valves, pumps and actuators; pneumatic systems such as HVAC transmitters, pneumatic automated assembly equipment and pneumatic operator control systems; gas collection/delivery; and precise sampling/gas flow applications such as barometry, gas chromatography and analytical instrument sampling systems.

Basic NBP Series.

Features: Cost-effective • Honeywell brand • Small size • Durable • Flexible • Robust

Benefits: Cost-effective pressure sensing solution with a variety of options that allow customers to meet their specific application needs. The Honeywell brand provides manufacturing excellence, fast response to request for quotes and samples, reliable supply chain, Six Sigma standards design, and supporting documentation. Small package size (as small as 7 mm x 7 mm [0.276 in x 0.276 in]) is very small when compared to most board mount pressure sensors, occupying less space on the PCB and typically allowing for easy placement on crowded PCBs or in small devices. Wide operating temperature range (-40 °C to 125 °C [-40 °F to 257 °F]), gel or non-gel coating media compatibility options, and ISO 9001 compliance allow for use in tough environments. Numerous package styles, pressure ranges, housings, gel coating, and porting options simplify integration into the device manufacturer's application. Reflow mounting J-STD-020D, MSL 1 and rapid stabilization after reflow soldering allow calibration immediately after mounting. Potential medical applications include hospital beds, oxygen concentrators, wound therapy, and blood pressure monitoring. Potential industrial applications include HVAC transmitters, air

movement control, environmental control, level indicators, leak detection, industrial controls, pneumatic controls, and other commercial applications.

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.

SCC Series.

Features: Temperature compensated • Reduced cost • Small size • SMT package

Benefits: Designed for potential applications where sensing element is integral to OEM equipment. 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
• SMT package • High-impedance bridge
• Low noise • Low power consumption for battery power

Benefits: Designed for potential applications where sensing element is integral to OEM equipment. 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.

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.

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С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
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- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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