

Sales Resource – Product Overview

TruStability® Pressure Sensors Liquid Media Option

Description

Until now, Honeywell's TruStability® Pressure Sensors have been intended for use with non-corrosive, non-ionic working fluids such as air and dry gases. **The new single side Liquid Media Option allows the end customer to use one port of the sensor with condensing humidity or non-corrosive liquid media (i.e. de-ionized water), eliminating the complexity or added expense of having to protect the sensor from this type of media.** Honeywell has introduced the new TruStability® Pressure Sensor Liquid Media Option because of the many applications where condensing humidity conditions exist or where liquid media is the desired media to measure.



These sensors offer different accuracies and compensated temperature ranges that address specific segment needs. Key benefits not found in competitive pressure sensors include:

1. **Stability:** Industry-leading stability
2. **Accuracy:** Extremely tight accuracy specification
3. **Flexibility:** Modular and flexible design with a variety of package styles and options, all with the same industry-leading performance specifications

HSC (High Accuracy Silicon Ceramic) Series: Industry-leading $\pm 1\%$ total error band specification, compensated across a 0 °C to 50 °C [32 °F to 122 °F] temperature range.

SSC (Standard Silicon Ceramic) Series: $\pm 2\%$ total error band specification, compensated across a wider -20 °C to 85 °C [-4 °F to 185 °F] temperature range.

TruStability® Pressure Sensors are very small in comparison to most pressure sensors, including the current Honeywell portfolio. Despite their small size, they are temperature compensated and calibrated to provide an amplified signal, typically allowing the customer to remove the components associated with signal conditioning from the printed circuit board (PCB) to increase space and reduce costs often associated with those components (e.g., acquisition, inventory, assembly). This integrated capability often eliminates problems that could occur from having multiple signal conditioning components across the PCB.

Value Propositions (★ = competitive differentiator)

- ★ **Stability:** Industry-leading stability often eliminates the need for calibration after board mount, and periodically over time
- ★ **Accuracy:** Calibrated to optimize accuracy
- ★ **Small size:** Occupies less area on the PCB, typically allowing for easier placement on crowded boards, or in small devices
- ★ **Flexibility of use in application:** Multiple packaging, mounting, power, signal, plus customized calibration capabilities; with the single side wet media option, the end customer can use one port of the sensor with condensing humidity or directly with non-corrosive liquid media
- ★ **Repeatability:** Provides excellent repeatability, high accuracy and reliability under many demanding conditions
- **Efficient:** Allows pressure monitoring within the specified range so that the appropriate adjustments can be made
- **Sensitive:** Meets specified pressure level requirements, providing enhanced sensitivity and accuracy over the range

Potential Applications

Barometry	Airflow monitors
Flow calibrators	Gas flow instrumentation
Gas chromatography	Hospital diagnostics (gas chromatography, blood analysis machines)
Gas flow instrumentation	Kidney dialysis machines
HVAC	Oxygen concentrators
Life sciences	Pneumatic controls
Pneumatic controls	Respiratory devices/machines (ventilators, anesthesia machines, patient monitoring)
	Sleep apnea equipment

Competition

Key competitive products are from Fujikura, SMI, All Sensors and Freescale

Contact Information

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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.

WARRANTY/REMEDY

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

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

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

WARNING **MISUSE OF DOCUMENTATION**

- The information presented in this document sheet is for reference only. Do not use this document as a product installation guide.
- Complete installation, operation, and maintenance information is provided in the instructions supplied with each product.

Failure to comply with these instructions could result in death or serious injury.

SALES AND SERVICE

Honeywell serves its customers through a worldwide network of sales offices, representatives and distributors. For application assistance, current specifications, pricing or name of the nearest Authorized Distributor, contact your local sales office or:

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