

Contact:

Eric Krantz
803.835.8230
eric.krantz@honeywell.com

Honeywell's New MicroPressure Sensor Enhances Functionality of Consumer Appliances and Medical Devices

Smallest ported pressure sensor on the market offers minimal footprint on a printed circuit board and supports wide pressure range

Honeywell's new small piezoresistive silicon pressure sensors offer a digital output for reading pressure over a specified full scale span and temperature range in high-volume medical devices and consumer appliances.

The [MicroPressure Series sensor](#) is calibrated and compensated over a specific temperature range for sensor offset, sensitivity, temperature effects and non-linearity using an on-board Application Specific Integrated Circuit (ASIC). Measuring just five millimeters by five millimeters, the MicroPressure sensor is ideal for applications that require greater accuracy with a small footprint.



The compact and highly accurate pressure sensors can be featured in medical devices, such as blood pressure monitors and air-suction pumps, as well as consumer appliances, such as coffee makers, high-efficiency washing machines and dishwashers.

“To enhance the performance of their products, design engineers need a cost-effective, application-specific pressure sensor solution that offers configurable options,” said Robert Robinson, product lead for Honeywell's [Sensing and Internet of Things business](#). “Our extremely small sensors feature an Internet-of-Things-ready interface to help customers bring compact, portable and lightweight products to market.”

For medical devices, such as non-invasive blood pressure monitors, the MicroPressure sensors' small size and low power consumption allow for a compact product design and longer battery life. In coffee makers, the sensors offer a high level of accuracy to help ensure that the appropriate amount of water is available in the reservoir. This allows the machine to reliably produce a better cup of coffee every time.

Honeywell MicroPressure Board Mount Sensors

The MicroPressure board-mount sensors feature:

- Strong stainless ports for product durability
- Absolute and gage pressure ranges
- ± 40 mbar to ± 2.5 bar; ± 4 kPa to ± 250 kPa; ± 0.6 psi to ± 30 psi
- Low power consumption to support longer battery life for products
- Support for multiple port configuration options

More information about Honeywell's MicroPressure sensors, including application notes and technical specifications, can be found at: <https://sensing.honeywell.com/micropressure-mpr-series>.

To see how the cost-effective sensors improve consumer products, please visit:

<https://youtu.be/sTAcUOhfZfk>.

Honeywell Safety and Productivity Solutions (www.sensing.honeywell.com) provides products, software and connected solutions that improve productivity, workplace safety and asset performance for our customers across the globe. We deliver on this promise through industry-leading mobile devices, software, cloud technology and automation solutions, the broadest range of personal protective equipment and gas detection technology, and custom-engineered sensors, switches and controls. We also manufacture and sell a broad portfolio of footwear for work, play and outdoor activities, including XtraTuf™ and Muck Boot™ brand footwear. For more news and information on Honeywell, please visit www.honeywell.com/newsroom.

###