

Application Note

Industrial Pressure Sensors, Intrinsically Safe Model IP IS (Global Approvals)

Background

Honeywell's Model IP IS is a new platform of intrinsically safe pressure sensors designed to offer repeatable, reliable and accurate pressure measurements over time. These rugged, stainless steel, all-welded pressure sensors are pre-configured with the most commonly requested options. They may be used in many demanding, harsh environments and with a variety of media. Configurations for current measurements are fully temperature compensated and calibrated.

Solutions

OIL AND GAS

May be used in pumps, compressors, generators, fracturing trucks, wellheads, pipelines, manifolds, and oil/water/gas separators.

Honeywell IP IS Series pressure sensors help keep equipment safe and minimize maintenance through reliable measurement of media (gas, fluid) under extreme environmental conditions. Pressure feedback on inlet and/or discharge may be used for both control and monitoring conditions such as fault monitoring to shut down or control equipment to avoid damage or failure of other equipment in field or cause safety issues.

INDUSTRIAL: FACTORY AUTOMATION

May be used in production/ process equipments, end-of-line testers, and product/material test machines.

Honeywell IP IS Series pressure sensors help keep people, equipment, and industrial manufacturing plants safe through reliable measurement of media (gas, fluid). Pressure feedback for both control and monitoring conditions can be used for fault monitoring, hydraulic/pneumatic fluid pressure monitoring/control, tank pressure monitoring, leak detection, pump control, process control/monitoring to shut down or control equipment to mitigate equipment damage/failure, product deficiency, or safety concern.



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Customer Benefits

IP Series	Features
	<ul style="list-style-type: none">• All-welded, 300 series stainless steel and Hastelloy®• 7 bar to 350 bar [100 psi to 5000 psi] pressure range• Accuracy options:<ul style="list-style-type: none">- Standard accuracy: IPG2 provides $\pm 0.25\%$ BFSL²- Optional enhanced accuracy: IPG1 provides $\pm 0.15\%$ BFSL²• 4 mA to 20 mA current output• $\pm 2\%$ FS Total Error Band³ (see Figure 1 in datasheet)• IP65 rated protection• <2 ms response time provides accurate, high-speed measurement• CE and RoHS compliant¹• Intrinsically Safe: cFMus/ATEX, IEC Ex certification

¹ cFMus/ATEX and IEC Ex approved

² Best Fit Straight Line; includes pressure non-linearity (BFSL), pressure hysteresis and non-repeatability; thermal errors are not included

³ Includes zero error, span error, thermal effect on zero, thermal effect on span, thermal hysteresis, pressure-non-linearity, pressure hysteresis and non-repeatability

Find out more

To learn more about Honeywell's
Honeywell's test and measurement
products, call **+1-614-850-5000**,
visit **measurementsensors.honey-**
well.com, or e-mail inquiries to
info.tm@honeywell.com

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.**

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.

Honeywell Sensing and Productivity Solutions

9680 Old Bailes Road
Fort Mill, SC 29707
honeywell.com

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