

INDUSTRIAL PRESSURE SENSORS FP5000 SERIES INTRINSICALLY SAFE

Application Note

Honeywell FP5000 Series is a new platform of intrinsically safe pressure sensors and designed to offer repeatable, reliable and highly accurate pressure measurements over time.

BACKGROUND

These rugged, stainless steel, media-isolated pressure sensors are available with hazardous location approvals on a configurable sensor platform offering multiple pressure ports and electrical connectors. The FP5000 is built to withstand a variety of media as well as many demanding and harsh installation environments. Configurations for pressure measurements are fully temperature compensated and calibrated.

SOLUTION

OIL AND GAS

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

Honeywell FP5000 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 for eliminating downtime due to failure.

FACTORY AUTOMATION

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

Honeywell FP5000 Series pressure sensors help keep people, equipment, and industrial manufacturing plants safe through reliable measurement of media (gas, fluid). Pressure feedback can be used to control and monitor for hydraulic/pneumatic fluid pressure, tank pressure, leak detection and pump control. Process control/monitoring also detect faults to shut down or control equipment to mitigate equipment damage/failure, product deficiency or safety concern.



FP5000

Intrinsically Safe
Pressure Transducers

Gage and absolute pressure ranges from 10 in-H₂O [0.36 psi] up to 5000 psi

Higher accuracy to 0.1 %FSS BFLS

Compensated temperature ranges from as low as -40°C [-40°F] to as high as 125°C (250°F)

Selectable pressure ports and electrical connectors available

Honeywell



ENERGY INDUSTRY

Can be used for applications such as gas turbine pressure monitoring, lubrication systems, tank level pressure, cooling water systems, feed pumps and fuel & hydraulic systems that may require pressure monitoring.

Honeywell FP5000 Series pressure sensors help provide critical pressure reporting on fuel management systems in the energy industry where fast sensor response rate and accurate pressure measurements are in demand. Pressure measuring is critical in monitoring for any potential overpressure condition in tank level or vessel pressure measurements.

FOR MORE INFORMATION

Honeywell Advanced Sensing Technologies services its customers through a worldwide network of sales offices and distributors. For application assistance, current specifications, pricing, or the nearest Authorized Distributor, visit sps.honeywell.com/ast or call:

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CHEMICAL REFINERIES

May be used in chemical refineries to monitor, contain and control flow rates and tank level pressure measurements of hazardous chemicals.

Honeywell FP5000 Series pressure sensors help mediate the chemical refining process, as well as the workplace safety and plant maintenance. Accidental chemical exposures, flammable reactions or explosions can be prevented by monitoring the potential faults beforehand with pressure feedback, such as leakage detection, pipe failures, device malfunction and other hazardous situations that may arise in chemical refinery settings.

WARRANTY/REMEDY

Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship during the applicable warranty period. 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 that Honeywell, in its sole discretion, 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 Honeywell may provide application assistance personally, through our literature and the Honeywell web site, it is buyer's sole responsibility 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 writing. However, Honeywell assumes no responsibility for its use.