

# Honeywell Sensing and Control

## Sensors for Test and Measurement

### Pressure and Differential Pressure Sensors

Honeywell's absolute, gage and true gage pressure, miniature, and subminiature pressure sensors are manufactured to meet demanding test and measurement applications in rugged environments, everything from general industrial process needs up to highly specialized pressure sensors for precision measurement.

Honeywell's portfolio also includes a wide selection of wet/wet and wet/dry differential pressure sensors to meet a variety of sensing needs.



### Features

- 10 inches of water (25 mBar) up to 150,000 psi (10,350 Bar)
- Differential pressure up to 10,000 psi (690 Bar)
- Miniatures the size of your fingernail
- Unamplified, amplified, and digital output
- Temperatures up to 220 °C (425 °F)
- Sub sea
- Flush mount
- 1 psid (6.9 kPa) wet/wet differential measurement that can withstand full line pressure up to 1,500 psi (10.3 MPa)
- Long term stability

Click on the links below to [visit our website](#) and see more details on each of our products. You can configure products, and purchase directly online or bookmark and come back to review another time.

Unsure of exactly what you need? Use our [Find A Solution](#) feature which offers step by step help to recommend the best product for your application. Need a modification or customization of a product you see below? Contact us to discuss your particular application and environment.

#### General Process



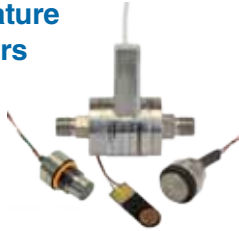
- All welded stainless steel construction
- Gage, absolute, barometric, vacuum pressure measurements
- Differential pressure sensors in wet/wet and wet/dry models
- Measure 0.5 psid to 10000 psid with accuracy ranges of 0.1 %, 0.25 % and 0.5 %
- High pressure sensors with optional compensated temperature ranges from -54 °C to 121 °C [65 °F to 250 °F]
- Intrinsically safe, fatigue resistant, and fatigue rated options available
- Highly configurable to meet your needs; custom options available

#### Precision / Technical Grade



- True gage, absolute and differential (wet/wet) ultra precision pressure sensors
- Stainless steel construction for rugged durability
- True and absolute sensors measure 10 psig to 7500 psig with 0.05 % accuracy
- Differential pressure models measure 50 psid to 750 psid with 0.1 % accuracy
- Intrinsically safe options available

**Compact / Miniature Pressure Sensors**



- Lightweight, one piece stainless steel construction with thin diaphragm for rugged performance and low pressure measurements
- Subminiature size to fit in extremely small or tight spaces
- Ranges from: 100 psi up to 20000 psi; or 10 psig to 3000 psig with 1 % accuracy
- Differential pressure ranges of 5 psid to 2000 psid with 0.3 % accuracy
- High frequency

**Flush Pressure Sensors**



- One piece stainless steel fully welded construction with thin flush diaphragm for rugged performance and low pressure measurements
- Miniature size to fit in small spaces with tight clearances
- Pressure measurements ranges: 0 psig up to 15000 psig with up to 0.25 % accuracy
- No dead volume
- Can be used in corrosive fluid environments
- Intrinsically safe options available

**Industrial Pressure Sensors**



- Rugged welded stainless steel construction for durability in dry environments
- Gas and liquid pressure overloads of up to 50% over capacity safely accepted
- Pressure ranges from 0 psig up to 15000 psig
- 0.5 % accuracy

**Digital Pressure Sensors**



- 0.1 % total error band (includes temperature)
- 1200 Hz analog response
- Gage and absolute designs available
- All-welded stainless steel construction
- Selectable RS-232 or RS-485
- 380 readings/second digital output

**High Pressure Sensors**



- Stainless steel construction
- Extreme pressure ranges from 50000 psi to 100000 psi
- 0.5% accuracy
- Intrinsically safe option available
- CE approved

**Pressure Sensors for Oil & Gas**



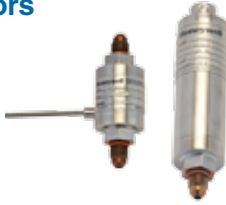
- Rugged Wing Union pressure sensors specially designed for oil and gas exploration/ drilling applications
- Stainless steel and X750 Inconel® construction, hermetically sealed for use in liquid or wet environments
- Ranges up to 20,000 psig with up to 0.2 % accuracy
- Intrinsically safe hazardous location sensor options available
- Products available with FM, CSA, ATEX, DNV, UL, IECEx, and CE certifications as required

**Process – Hazardous Location Capable Pressure Sensors**



- Stainless steel construction with all welded stainless steel diaphragms
- True gage or absolute design
- Differential pressure (wet/wet) with low, mid and high ranges
- Pressure ranges: from 2 psig/a up to 20000 psig/a with accuracies up to 0.1 %
- Differential pressure: from 2 psid up to 10000 psid with accuracies up to 0.25 %
- Intrinsically safe option available
- Select models with FM (Factory Mutual) approval

**Pressure Sensors for Aerospace**



- Designed for use in aerospace test and measurement applications
- Stainless steel construction
- Lightweight, compact size
- 0.3% accuracy
- Differential model ranges from 10 psig/a to 10000 psig/a
- Amplified outputs available
- Meets MIL-45208 and traceability requirements

**Sanitary Pressure Sensors for Pharma, Food & Bev, etc.**



- Stainless steel; for use in food, beverage, pharmaceutical and other clean manufacturing processes
- Pressure ranges: 10 psig/a to 600 psig/a,
- Accuracy to 0.1 %
- Track temperature changes, 93 °C per minute [200 °F per minute]
- 500 ms pressure response time, secondary containment exceeds 1500 psi
- Intrinsically safe option available
- CE approved

**Submersible / Liquid Level Pressure Sensors**



- Submersible design for vertical entry into a tank or stilling well
- All welded stainless steel for corrosion resistance
- True gage design
- Conduit connection
- 0.1 % accuracy

**Accu-Gage Calibration Pressure Sensors**



- Combination pressure transducer and digital readout in one portable, ruggedized display with single or double line displays
- Enhanced accuracy of 0.05 % (AG-400) or 0.10 % (AG-401) full scale
- Typically used in industrial quality or statistical control, laboratory applications and more
- Often used as replacements for precision dial gauges, mercury columns, or quartz tube barometers
- CE approved

**Digital Gauges for Load/Force Measurement**



- Rugged, stainless steel design with easy to read digital display and large buttons
- Ranges from 1 psi up to 60000 psi
- High accuracy: up to 0.05% full scale
- Quick and easy setup and operation
- Select models available to meet industry standards as required: NEMA 4 , FMA, NIST traceability, intrinsically safe, etc.

**Find out more**

To learn more about Honeywell's test and measurement products, call **+1-614-850-5000** or **1-800-848-6564** (US), email inquiries to **info.tm@honeywell.com**, or visit **http://measurementsensors.honeywell.com**

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