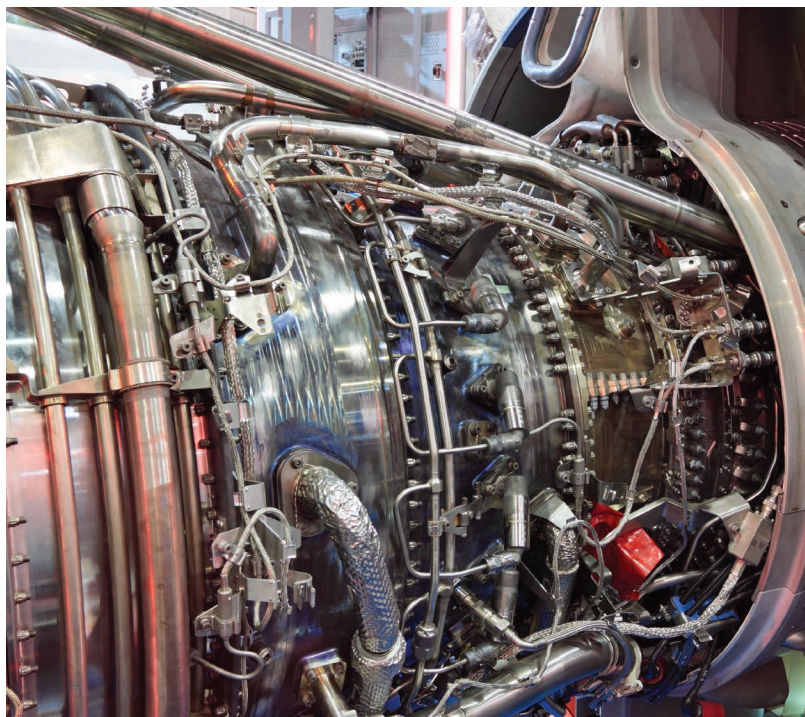


Honeywell



PRESSURE TRANSDUCERS AND BAROMETERS

A world leader in pressure stability and
accuracy over temperature

Honeywell Delivers Advanced Pressure Transducers and Barometer Solutions

Honeywell's Precision Pressure Transducers and Barometers are known for their exceptional accuracy and stability.

These transducers combine industry leading technology and reliability in extreme conditions and a variety of small packages with flexible configurations optimized to your application.

The ability to provide exceptionally accurate pressure readings over a wide temperature range, coupled with many advanced features and a compact rugged design, makes Honeywell's precision pressure transducers among the highest value, most versatile solutions available. In addition to our standard product, Honeywell has the capability to customize transducer solutions to meet specific customer needs. Our transducers and barometers are designed to function optimally in a wide variety of environments whether on land, sea or in the air.

We build all Honeywell products with our Total Quality Management (TQM) commitment, which means we do more than just supply products for your needs – we aim to exceed expectations. Plus, all our products are backed by Honeywell, recognized as a global leader in sensor manufacturing, technology and quality.

Honeywell Aerospace Plymouth

Under one facility, Honeywell Aerospace Plymouth provides a state-of-the-art semiconductor foundry and design engineering services for a single customer interface, to create, produce, and deliver leading pressure transducer solutions according to your needs.

Transducers with a Smart Sensor Design

Honeywell combines nearly fifty years of experience in world leading, silicon piezoresistive pressure sensors with advanced technology to offer digital, networkable pressure transducers with exceptional accuracy.

Honeywell's proprietary smart sensor is the heart of our transducers and barometers, gathering and translating pressure into stable, accurate readings. We designed our sensors using a micro-electro-mechanical system (MEMS) silicon die with integrated piezoresistive strain gauges to perform exceptionally in even rugged environments. Our transducers integrate microprocessors, standard bus interface electronics and many software features to allow you to customize them to fit a variety of applications. This flexibility enables analog as well as digital output readings. You benefit from the Honeywell quality, expertise and innovation to provide high accuracy pressure readings in a wide variety of applications.

Ask us about Honeywell's additional advanced sensor solutions

- Magnetic Sensors and Magnetometers
- Accelerometers
- Thermal Switches

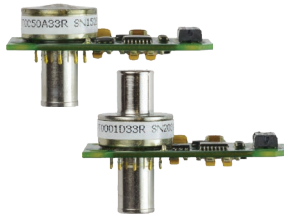


PRODUCT ¹	PRECISION PRESSURE TRANSDUCER 2 (PPT2)	PRECISION PRESSURE TRANSDUCER (PPT)	HONEYWELL PRECISION BAROMETER (HPB)
Description	The PPT2 is Honeywell's next generation pressure transducer designed with enhanced features that result in higher resolution and tighter accuracy performance over a wider temperature range.	The PPT pressure transducer provides digital output and temperature compensation in a compact, rugged design with many software features that support a wide range of applications.	The HPB provides a high-value solution for accurate and stable barometric pressure measurements.
Total Error²	±0.075% FS Max	±0.10% FS Max	±0.4 hPa Max ±0.8 hPa Max
Long Term Stability	0.025% FS Max per year typical	0.025% FS Max per year typical	0.25 hPa Max per year typical
Communication Type	RS-232, RS-485	RS-232, RS-485	RS-232, RS-485, TTL
Baud Rate	1200 to 115200	1200 to 28800	1200 to 28800
Networkable	Yes	Yes	Yes
Media³	Dry	Dry	Dry
Operating Temperature Range	-40° to 85°C -55° to 110°C	-40° to 85°C	-40° to 85°C
Pressure Range	10 standard ranges 1 to 500 PSI	10 standard ranges 1 to 500 PSI	500 to 1200 hPa
Pressure Type	Absolute, Gauge, Differential	Absolute, Gauge, Differential	Absolute
Analog Output	0 – 5 VDC (16-bit)	0 – 5 VDC (12-bit)	N/A
Customizable Fittings	Yes	Yes	Yes
Typical Applications	Secondary Air Data, Altimeters, Engine Testing, Flight Testing, Meteorology, Flow and Pressure Calibrators, Instrumentation and Analytical Equipment, Process Control, R&D	Secondary Air Data, Altimeters, Engine Testing, Flight Testing, Meteorology, Flow and Pressure Calibrators, Instrumentation and Analytical Equipment, Process Control, R&D	Remote Meteorological Stations, Data Buoys, Environmental Data Logging, Meteorology, Airborne Measurements, Airports
Customizable	Yes	Yes	Yes
Power Supply	6 – 34 VDC, 50 mA max	5.5 – 30 VDC, 30 mA max	5.5 – 30 VDC, 30 mA max TTL: 6 – 26 VDC, 9 mA max
Weight	4.4 oz (125 g)	5 oz (142 g)	5 oz (142 g)
RoHS Compliant	Yes	No	No
Export Classification	EAR99	EAR99	EAR99

1 These specifications are provided for product comparisons and may be updated at anytime by Honeywell. Check product datasheets at www.pressuresensing.com for current information.

2 Total Error is the sum of worst case linearity, repeatability, hysteresis, thermal effects and calibration errors over the operating temperature range.

3 Dry is suitable for non-condensing, non-corrosive, and non-combustible gases. Wet is suitable for media compatible with 316 stainless steel.



PRODUCT ¹	HONEYWELL PRECISION BAROMETER ALTIMETER (HPA)	INTEGRATED PRESSURE TRANSDUCER (IPT)	PRECISION PRESSURE TRANSDUCER RUGGEDIZED (PPTR)	SMART ABSOLUTE PRESSURE TRANSDUCER (LG1237)
Description	The HPA is a variant of the HPB, configured for altimeter applications, providing the same accurate and stable pressure measurements.	The IPT provides a size sensitive, high accuracy solution with an industry standard SPI digital output. Applying coefficients stored in the on-board EEPROM to the normalized IPT pressure and temperature output yields highly accurate and stable pressure readings.	The PPTR provides a rugged transducer for use in harsh environments. It is designed with an isolation diaphragm, which offers pressure sensing solutions for both gaseous and liquid media applications. It's hermetically-sealed, stainless steel construction eliminates humidity effects and provides excellent emission and immunity protection.	The Honeywell LG1237 is a smart absolute pressure transducer designed to provide extremely precise and stable pressure measurements. Its rugged design withstands high levels of acceleration, vibration and shock.
Total Error²	±0.03% FS Max ±0.06% FS Max	±0.04% FS Max, Abs ±0.10% FS Max, Gau/Diff	±0.20% FS Max	Varies between models ±0.047% FS Max to ±0.03% FS Max
Long Term Stability	0.02% FS Max per year typical	0.025% FS Max per year typical	unspecified	Less than ±0.010% FS per year
Communication Type	RS-232, RS-485, TTL	SPI	RS-232, RS-485	TTL is standard configuration. RS-485 and RS-422 are available upon request
Baud Rate	1200 to 28800	N/A	1200 to 28800	9600 – 375k (Asynchronous) 1M baud (Synchronous)
Networkable	Yes	N/A	Yes	Yes
Media³	Dry	Dry	Wet/Dry	Dry
Operating Temperature Range	-40° to 85°C	-40° to 85°C	-40° to 85°C	-55° to 125°C
Pressure Range	0 to 17.6 PSIA	6 standard ranges 1 to 50 PSI	9 standard ranges 15 to 3000 PSI	8 standard ranges 0.5 to 1000 PSI
Pressure Type	Absolute	Absolute, Gauge, Differential	Absolute, Gauge	Absolute
Analog Output	N/A	N/A	0 – 5 VDC (12-bit)	N/A
Customizable Fittings	Yes	No	¼ – 18 NPT (internal)	Manifold with flush port
Typical Applications	Altimeters, Remote Meteorological Stations, Data Buoys, Environmental Data Logging, Meteorology, Airborne Measurements, Airports	Secondary Air Data, Altimeters, Cabin Air Pressure, Engine Test Systems, Flight Test Systems, Meteorology, Flow and Pressure Calibrators, Instrumentation and Analytical Equipment, R&D	Process Control, Remotely Operated Underwater Vehicles (ROV), Engine Test Stands, Flight Test, Manufacturing Test Stations, Laboratory and Medical Instruments, Water Depth Measurement, Instrumentation and Analytical Equipment	Jet Engine FADEC, Avionics, Flight Test, Engine Test Cells, Instrumentation and Analytical Equipment
Customizable	Yes	Yes	Yes	Yes
Power Supply	5.5 – 30 VDC, 30 mA max TTL: 6 – 26 VDC, 9 mA max	4 – 12 VDC, 7.5 mA max	6 – 30 VDC, 27 mA max	+5 VDC, 120 mA max 9 – 16 VDC, 15 mA max
Weight	5 oz (142 g)	0.28 oz (8 g) Abs 0.34 oz (9.7 g) Gau/Diff	14 oz (397 g)	2.7 oz (75 g)
RoHS Compliant	No	Yes	No	No
Export Classification	EAR99	EAR99	EAR99	9A991.d Hardware 9E991 Technology Data

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Find Out More

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