



PRESSURE TRANSDUCERS AND BAROMETERS

A world leader in pressure stability and accuracy over temperature

Honeywell

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. 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.

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.

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.

ASK US ABOUT HONEYWELL'S ADDITIONAL ADVANCED SENSOR SOLUTIONS

- Magnetic Sensors and Magnetometers
- Accelerometers
- Thermal Switches



PRODUCT ¹	INTEGRATED PRESSURE TRANSDUCER (IPT)	PRECISION PRESSURE TRANSDUCER 2 (PPT2)	PRECISION PRESSURE TRANSDUCER (PPT)
Description	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 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.
Pressure Type	Absolute, Gauge, Differential	Absolute, Gauge, Differential	Absolute, Gauge, Differential
Pressure Range	5 standard ranges 1 to 50 PSI (consult factory for non-standard ranges)	6 standard ranges 2 to 50 PSI (consult factory for non-standard ranges)	7 standard ranges 1 to 50 PSI (consult factory for non-standard ranges)
Total Digital Error²	±0.04% FS Max, Abs ±0.10% FS Max, Gau/Diff	±0.075% FS Max ±(0.075%FS + 0.20% Abs Reading) for 5psid/g and below	±0.10% FS Max ±(0.10%FS + 0.04% Abs Reading) for 5psid/g and below
Analog Output	N/A	0 – 5 VDC (16-bit)	0 – 5 VDC (12-bit)
Long Term Stability	0.025% FS Max per year typical	0.025% FS Max per year typical	0.025% FS Max per year typical
Communication Type	SPI	RS-232, RS-485	RS-232, RS-485
Baud Rate	N/A	1200 to 115200	1200 to 28800
Networkable	N/A	Yes	Yes
Media³	Dry air or gas	Dry air or gas	Dry air or gas
Operating Temperature Range	-40° to 85°C (-55°C to +100°C on selected models - consult factory)	-40° to 85°C -55° to 110°C	-40° to 85°C (-55°C to +85°C on selected models - consult factory)
Customizable Fittings	No	Yes	Yes
Typical Applications	Secondary Air Data, Altimeters, UAV, Cabin Air Pressure, Engine Test Systems, Flight Test Systems, Meteorology, Flow and Pressure Calibrators, Instrumentation and Analytical Equipment, R&D	UAV, Secondary Air Data, Altimeters, Engine Testing, Flight Testing, Meteorology, Flow and Pressure Calibrators, Instrumentation and Analytical Equipment, Process Control, R&D	UAV, Secondary Air Data, Altimeters, Engine Testing, Flight Testing, Meteorology, Flow and Pressure Calibrators, Instrumentation and Analytical Equipment, Process Control, R&D
Power Supply	4 – 12 VDC, 7.5 mA max	6 – 34 VDC, 50 mA max	5.5 – 30 VDC, 35 mA maximum
Weight	0.28 oz (8 g) Abs 0.34 oz (9.7 g) Gau/Diff	4.4 oz (125 g)	5 oz (142 g)
RoHS Compliant	Yes	Yes	No
Export Classification	EAR99	EAR99	EAR99

¹ These specifications are provided for product comparisons and may be updated at anytime by Honeywell.

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

³ Suitable for non-condensing, non-corrosive, and non-combustible gases.



PRODUCT ¹	HONEYWELL PRECISION BAROMETER (HPB)	HONEYWELL PRECISION BAROMETER ALTIMETER (HPA)
Description	The HPB provides a high-value solution for accurate and stable barometric pressure measurements.	The HPA is a variant of the HPB, configured for altimeter applications, providing the same accurate and stable pressure measurements.
Pressure Type	Absolute	Absolute
Pressure Range	500 to 1200 hPa	0 to 17.6 PSIA
Total Digital Error²	±0.4 hPa Max	±0.03% FS Max
Analog Output	N/A	N/A
Long Term Stability	0.25 hPa Max per year typical	0.02% FS Max per year typical
Communication Type	RS-232, RS-485	RS-232, RS-485
Baud Rate	1200 to 28800	1200 to 28800
Networkable	Yes	Yes
Media³	Dry air or gas	Dry air or gas
Operating Temperature Range	-40° to 85°C	-40° to 85°C
Customizable Fittings	Yes	Yes
Typical Applications	Remote Meteorological Stations, Data Buoys, Environmental Data Logging, Meteorology, Airborne Measurements, Airports	Altimeters, Remote Meteorological Stations, Data Buoys, Environmental Data Logging, Meteorology, Airborne Measurements, Airports
Power Supply	5.5 – 30 VDC, 35 mA maximum	5.5 – 30 VDC, 35 mA maximum
Weight	5 oz (142 g)	5 oz (142 g)
RoHS Compliant	No	No
Export Classification	EAR99	EAR99

¹ These specifications are provided for product comparisons and may be updated at anytime by Honeywell.

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

³ Suitable for non-condensing, non-corrosive, and non-combustible gases.

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**THE
 FUTURE
 IS
 WHAT
 WE
 MAKE IT**

