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Honeywell

PPT Precision Pressure Transducer

Highly Accurate Over a Wide Temperature Range

Honeywell's Precision Pressure Transducer (PPT) offers extraordinary value with high accuracy over a wide temperature range. The PPT combines proven silicon sensor technology with microprocessor -based signal conditioning to provide an extremely smart pressure transducer. Available in a compact, rugged design, the PPT has many software features that support a wide range of applications.



Specifications

PERFORMANCE	
Total Error Band [1]	See Ordering Information
Temperature Range	Operating: -40 to 85°C Storage: -55 to 90°C
Sample Rate [3]	8.33 ms to 51.2 min; minimum response delay 17 ms
Resolution	Digital: Up to 0.001% FS, Analog: 1.22 mV steps (12 bits)
Long Term Stability	0.025%FS per year typical
MECHANICAL	
Pressure Units [3]	atm, bar, cmwc, ftwc, hPa, inHg, inwc, kg/cm2, KPa, mBar, mmHg, MPa, mwc, psi, user, lcom, pfs
Media Compatibility	Suitable for non-condensing, non-corrosive, and non-combustible gases
Weight	Approx. 5 oz. (142 gm) without fittings
ELECTRICAL	
Output [3][4]	RS-232 Digital with 0-5V Analog, RS-485 Digital with 0-5V Analog
Power Requirements	Supply Voltage: 5.5 to 30 VDC, Operating Current: 35 mA maximum
Baud Rate [3]	User configurable between 1200 and 28800 bits/sec
Bus Addressing [3]	Address up to 89 units
Connector	MIL-C-26482, Shell Size #10, 6-pin, #20 size
ENVIRONMENTAL	
Mechanical Shock	1500G, 0.5 ms half sine; per MIL-STD-883D, M2002.3, Cond. B
Thermal Shock	24 1-hr cycles, -40 to 85°C
Vibration	0.5 in or 20G, 20-2000 Hz; per MIL-STD-883D, M2007.2, Cond. A
Overpressure [2]	3X FS
Burst Pressure [2]	3X FS
EMC Directive	Compliant, Metal Connector Model Only
RoHS	Non-Compliant

(1) Total Error is the sum of worst case linearity, repeatability, hysteresis, thermal effects and calibration errors over the operating temperature range. Full scale for differential ranges is the sum of + and – ranges. Calibration is traceable to NIST. (2) Exposure to overpressure will not permanently affect calibration or accuracy of unit. Burst pressure is the sum of the measured pressure plus the static pressure and exceeding it may result in media escape. (3) User configurable. (4) Recommended load impedance of 100 k-ohm or greater.

POTENTIAL APPLICATIONS

- Secondary Air Data
- Altimeters
- Engine Testing
- Flight Testing
- Meteorology
- Flow and Pressure Calibrators
- Instrumentation and Analytical Equipment
- Process Control
- Research and Development

FEATURES & BENEFITS

- HIGHLY ACCURATE

  Simplifies System Design
  No additional signal compensation needed to gain the benefits of a very accurate sensor

- SMART, DIGITAL SENSING AND CONTROL

  Efficient Data Acquisition
  Network up to 89 units

- VERSATILE AND CONFIGURABLE

  Works with existing and new systems
  0-5V analog and either RS-232 or RS-485 digital output

  Optimizes Output
  User-configurable pressure units, sampling, update rate

  Flags Problems
  Internal diagnostics set flags, indicates errors

- USER SELECTABLE SOFTWARE FEATURES

  Baud Rate, Parity Setting, Continuous Broadcast, ASCII or Binary Output, Sensor Temperature Output (°C or °F), Deadband, Sensitivity, Tare Value, Configurable Analog Output

- ISO-9001, ISO-14001

PPT Specifications

Ordering Information

PPT PRECISION PRESSURE TRANSDUCER

PPT	Full Scale Pressure Range	Absolute	Gauge	Differential	Digital Total Error Band[1][2]	Analog Total Error Band[1][2]
	0001	N/A	1 PSI	N/A	±(0.20%FS + 0.04% Abs. Reading)	±(0.24%FS + 0.04% Abs. Reading)
	0001	N/A	N/A	±1 PSI	±(0.10%FS + 0.04% Abs. Reading)	±(0.12%FS + 0.04% Abs. Reading)
	0002	N/A	2 PSI	±2 PSI	±(0.10%FS + 0.04% Abs. Reading)	±(0.12%FS + 0.04% Abs. Reading)
	0005	N/A	5 PSI	±5 PSI	±(0.10%FS + 0.04% Abs. Reading)	±(0.12%FS + 0.04% Abs. Reading)
	0010	N/A	10 PSI	±10 PSI	±0.10%FS Max.	±0.12%FS Max.
	0015	15 PSI	N/A	N/A	±0.10%FS Max.	±0.12%FS Max.
	0020	20 PSI	20 PSI	N/A	±0.10%FS Max.	±0.12%FS Max.
	0050	50 PSI	N/A	N/A	±0.10%FS Max.	±0.12%FS Max.

TYPE		P1 PRESSURE	P2 PRESSURE
A	Absolute	0 (vacuum) to FS	N/A
G	Gage	Reference to FS	Reference
D	Differential	+FS to −FS rel. to P2	+FS to −FS rel. to P1

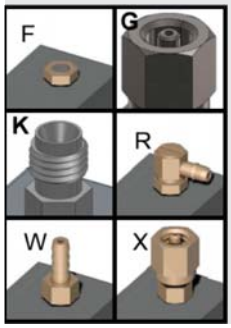
P1	PRESSURE CONNECTION (ABSOLUTE, GAUGE, DIFFERENTIAL)
F	Filter (blocks debris)
G	Stainless SwagelokTM (1/8 inch female)
K	Stainless Swagelok-compatible (1/8 inch male)
R	Brass barbed, right angle (1/8 inch ID tubing)
W	Brass barbed (1/8 inch ID tubing)
X	Brass Swagelok® (1/8 inch female)

P2	PRESSURE CONNECTION (GAUGE, DIFFERENTIAL)
F	Filter (blocks debris)
G	Stainless Swagelok® (1/8 inch female)
K	Stainless Swagelok-compatible (1/8 inch male)
R	Brass barbed, right angle (1/8 inch ID tubing)
W	Brass barbed (1/8 inch ID tubing)
X	Brass Swagelok® (1/8 inch female)
N	Not Applicable (Absolute)

OUTPUTS	
2V	RS-232 digital, 0-5V analog
5V	RS-485 digital, 0-5V analog

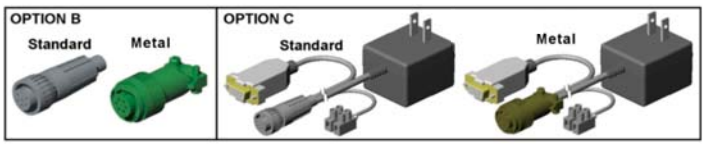
ELECTRICAL CONNECTION	
A	Plastic 6-pin connector
B	Metal 6-pin connector

- OPTIONS	
A	Demonstration Kit[2] (RS-232 Only)
B	Mating Connector
C	Power Supply/Data Cable (RS-232 only)
E	Certificate of Conformance
F	Calibration Certificate

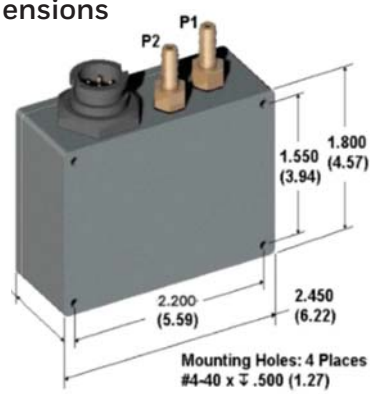


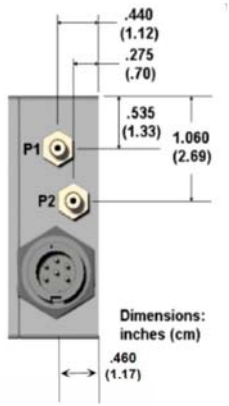
PPT2	0020	A	W	N	2V	A	-BEF

(1) Tighter accuracy available on some models. Consult factory.
(2) Demonstration kit includes unit, power supply/data cable (120V), demonstration software, and user manual.

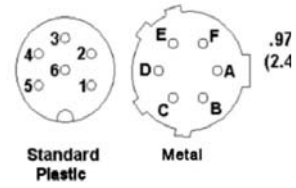


Dimensions





Std	Metal	Signal Name
1	A	RS-232 (TD) / RS-485 (B)
2	B	RS-232 (RD) / RS-485 (A)
3	C	Case Ground
4	D	Common Ground (GD)
5	E	DC Power In
6	F	Analog Output



ESD (electrostatic discharge) sensitive device
Damage may occur when subjected to high energy ESD. Proper ESD precautions should be taken to avoid performance degradation or loss of functionality.

EOS (electrical overstress) sensitive device
Damage may occur when subjected to EOS. Do not exceed specified ratings to avoid performance degradation or loss of functionality.

Honeywell reserves the right to make changes to improve reliability, function or design. Honeywell does not assume any liability arising out of the application or use of any product or circuit described herein; neither does it convey any license under its patent rights nor the rights of others.

Find out more

For more information on Honeywell's Precision Pressure Transducers visit us online at www.pressuresensing.com.

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ADS-14179 rev F
N61-2080-000-000 | 02/19
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Honeywell

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