

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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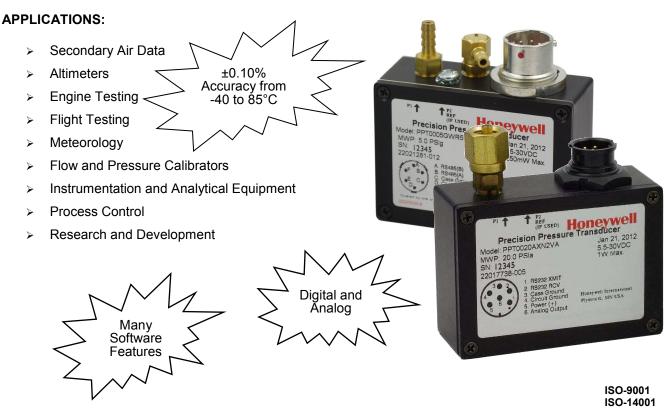






Precision Pressure Transducer PPT

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.



- ► High Accuracy ±0.10% FS from -40 to 85°C
- ➤ 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 Connect up to 89 units on a multidrop bus using built-in RS-485 capability.

Easy Interface - Directly connects to PC via communication ports. **Closes the Loop** - Smart PPT makes control decisions.

- Versatile and Configurable
- Works with existing and new systems. All units have 0-5V analog and either RS-232 or RS-485 digital outputs.

Handles most dry gas media.

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

Flags Problems - Internal diagnostics set flags, provide alarms.

- 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

SPECIFICATIONS

Performance Specifications (1)

Total Error: (from -40 to 85°C) Digital: ±0.10% FS Max. ⁽²⁾ Analog: ±0.12% FS Max. ⁽²⁾

Temperature Range:

Operating: -40 to 85°C (-40 to 185°F) Storage: -55 to 90°C (-67 to 194°F) **Sample Rate**⁽⁴⁾: 8.33ms to 51.2 min

Resolution:

Digital: Up to 0.001% FS

Analog: 1.22mV steps (12 bits) **Response Delay:**

(1000/update rate) +1ms, minimum 17ms

Long Term Stability:

0.025% FS max per year typical

Mechanical Specifications

Pressure Ranges and Type:

See Ordering Information

Pressure Units ⁽⁴⁾: atm, bar, cmwc, ftwc, hPa, inHg, inwc, kg/cm², KPa, mBar, mmHg, MPa, mwc, psi, user, lcom, pfs

Media Compatibility: Non-condensing, non-corrosive, and non-combustible gases.

Weight: Approx. 5 oz. (142 gm) without fittings

Electrical Specifications

Output:

RS-232 Digital w/0-5V Analog⁽⁴⁾ RS-485 Digital w/0-5V Analog⁽⁴⁾

Power Requirements:

Supply Voltage: 5.5 to 30 VDC Operating Current: 35 mA max. Baud Rate⁽⁴⁾: 1200, 2400, 4800, 9600,

14400, 19200, 28800

Bus Addressing⁽⁴⁾: Address up to 89 units

Environmental Features (3)

Overpressure: 3x FS, maximum 600psi Burst Pressure: 3x FS, maximum 700psi Mechanical Shock: 1500G, 0.5ms half sine Thermal Shock: 24 1-hr cycles, -40 to 85°C Vibration: 0.5in or 20G's, 20Hz – 2K Hz

(1) Total Error is the sum of worst case linearity, repeatability, hysteresis, thermal effects and calibration errors from -40 to 85°C. Full scale for differential ranges is the sum of + and – ranges. Pressure range 1psi gauge has digital accuracy of ±0.20% FS max; analog accuracy of ±0.24% FS max. Calibration is traceable to NIST. (2) Tighter accuracy available on some models. Consult factory. (3) 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. Mechanical Shock tested per MIL-STD-883D, M2002.3, Cond. B. Vibration tested per MIL-STD-883D, M2007.2, Cond. A. (4) User configurable. (5) Demonstration kit includes unit, power supply/data cable (120V), demonstration software, and user manual. (6) Connector: Mil-C-26482 type, Shell Size #10, 6-pin #20 size.

ESD (electrostatic discharge) sensitive device.

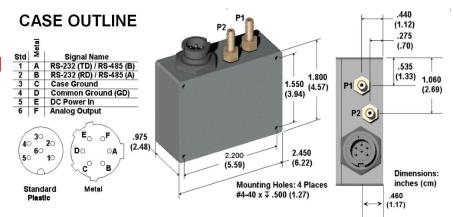
Damage may occur when subjected to high energy ESD. Proper ESD precautions should be taken to avoid performance degradation or loss of functionality. **EOS** (electrical overstress) sensitive device. Damage may occur when subjected to EOS. Do not

Damage may occur when subjected to EOS. Do r exceed specified ratings to avoid performance degradation or loss of functionality.

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European EMC Directive:	Compliant - Metal Connector Model Only		
RoHS Directive:	Non-Compliant		

CUSTOMER SERVICE EMAIL: quotes@honeywell.com

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



ORDERING INFORMATION

PPT Precision Pressure Transducer

Precision Pressure Transducer								
FULL SCALE PRESSURE RANGE								
. 022	Absolute		Differential					
0001 0002 0005 0010 0020 0050 0100 0300 0500	N/A N/A N/A 20 PSI 50 PSI 100 PSI 300 PSI 500 PSI	1 PSI ⁽¹⁾ 2 PSI 5 PSI 10 PSI 20 PSI 50 PSI 100 PSI 300 PSI	±1 PSI ±2 PSI ±5 PSI ±10 PSI ±20 PSI ±50 PSI ±300 PSI ±500 PSI			G K		
	TYPE	P1 Pres	sure		Pres	essure Wa X		
	A G D		m) to FS N/A					
		Absol F G K R W	ute, Gauge, Differential Filter (blocks debris) Stainless Swagelok ® (1/8 inch female) Stainless Swagelok-compatible (1/8 inch male) Brass barbed, right angle (1/8 inch ID tubing) Brass Sarbed (1/8 inch ID tubing) Brass Swagelok ® (1/8 inch female)					
			P2 PRESSURE CONNECTION					
			Gauge, F G K R W	Differential Filter (blocks debris) Stainless Swagelok ® (1/8 inch female) Stainless Swagelok-compatible (1/8 inch male) Brass barbed, right angle (1/8 inch ID tubing) Brass barbed (1/8 inch ID tubing) Brass Swagelok ® (1/8 inch female)				
				OUTPUTS				
				2V				
				5V	5V RS-485 digital, 0-5V analog ELECTRICAL CONNECTION			
					A B	Plastic 6-pin connector		

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Certificate of Conformance

Calibration Certificate



PPT 0100 A

Power Supply/Data Cable (RS-232 Only)