Honeywell

Precision Pressure Transducer – Explosion Proof PPTE

Honeywell's PPTE offers an explosion-proof pressure transducer where protection in hazardous locations is critical. It combines proven silicon sensor technology with microprocessor-based signal conditioning to provide an extremely smart pressure transducer. Designed with a hermetically sealed, stainless steel construction, the PPTE operates in severe vibration, thermal and mechanical shock environments. The PPTE has many software features that support a wide range of applications.



PPTE

SPECIFICATIONS

CASE OUTLINE

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Output: RS-232 Digital w/0-5VAnalog ⁽⁴⁾	PTE Precision Pressure Transducer – Explosion Proof
RS-485 Digital w/0-5V Analog ⁴	FULL SCALE PRESSURE RANGE
Power Requirements:	Absolute Gauge
Supply Voltage: 6 to 30 VDC	0015 15 PSI n/a
Operating Current: Standard: 19-27mA Baud Rate ⁽⁴⁾ : 1200, 2400, 4800, 9600,	0020 20 PSI 20 PSI
14400, 19200, 28800	0040 40 PSI 40 PSI
Bus Addressing ⁽⁴⁾ : Address up to 89 units.	0100 100 PSI 100 PSI
Industrial Emissions and Immunity:	0300 300 PSI 300 PSI
Meets IEC 61326	0500 500 PSI 500 PSI
Environmental Features ⁽³⁾	1000 1000 PSI 1000 PSI
Overpressure: 3x FS, maximum 6000psi	1500 1500 PSI 1500 PSI
Burst Pressure: 3x FS, maximum 8500psi Mechanical Shock: 1500g, 0.5ms half sine	3000 3000 PSI 3000 PSI
Temp Shock: 24 1-hour cycles, -40 to 85°C	TYPE P1 Pressure P2 Pressure
Vibration: 0.5in or 20G's, 20Hz – 2K Hz	A Absolute 0 (vacuum) to FS N/A
(1) Accuracy is the sum of worst case linearity, repeatability,	G Gauge Reference to FS Reference
hysteresis, thermal effects and calibration errors from -40 to	P1 PRESSURE CONNECTION
85°C. Typical is the average of absolute value of errors at	P ¼ - 18 NPT (internal)
all pressures and temperatures. Calibration is traceable to NIST. (2) Tighter accuracy available on some models.	OUTPUTS
Consult factory. (3) Exposure to overpressure will not	2V RS-232 digital, 0-5V analog
permanently affect calibration or accuracy of unit.	5V RS-485 digital, 0-5V analog
Exceeding burst pressure may result in media escape.	ELECTRICAL CONFIGURATION AND CONNECTION
Mechanical Shock tested per MIL-STD-883D, M2002.3, Cond. B. Vibration tested per MIL-STD-883D, M2007.2,	D 1/2 - 14 NPT external w/4ft pigtail cable
Cond. A. (4) User configurable.	EXPLOSION PROOF CERTIFICATION
	C CSA, Canadian Standards Association
	Class I, Div I, Groups B, C, D; Class II/III, Div I, Groups E, F, G
	F Factory Mutual
	Class I, Div I, Groups B, C, D; Class II/III, Div I, Groups E, F, G
PF	PTE 0500 A P 2V D C
Find out more	

rina out more

For more information on Honeywell's Precision Pressure Transducers visit us online at www.honeywell.com/pressuresensing or contact us at 800-323-8295 or 763-954-2474. Customer Service Email: ps.customer.support@honeywell.com.

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