

PRECISION DIGITAL PRESSURE TRANSDUCER / TRANSMITTER WITH DIGITAL AND ANALOG OUTPUTS

Models 242E, 342E

Developed specifically for industrial applications that require high accuracy, stability, and exceptional temperature performance. These units feature the latest blend of mechanical and circuit technology, digitally enhanced to achieve superior ruggedness, accuracy, and fatigue life. When you need assistance with your pressure application, call GP:50.



GENERAL PURPOSE

FEATURES:

- Microprocessor based, linearized & temperature compensated
- Accurate to $\pm 0.05\%$ FSO (0.1% std.)
- Environment proof
- All-welded, hermetically sealed, stainless steel
- Indestructible - totally encapsulated electronics
- Wide temperature operating range
- RS232 communication

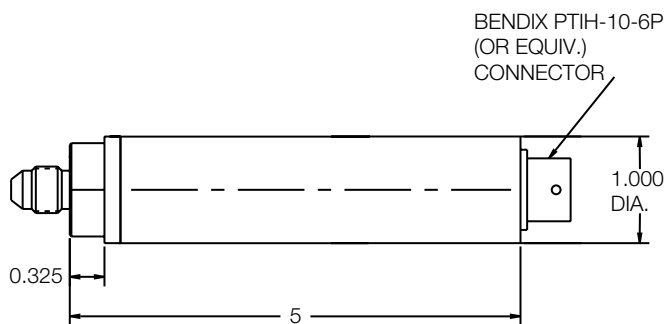
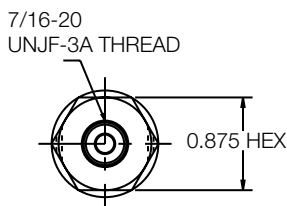
PRESSURE RANGES:

- From 0-15 psi to 0-15,000 psi

ACCURACY:

- From 0.1% to 0.05%

MODEL	OUTPUT @ 70°F	EXCITATION
242E	0 to 5 Vdc $\pm 0.05\%$ FSO	9-40 Vdc
342E	4-20 mA $\pm 0.05\%$ FSO	9-36 Vdc



WIRING CODE

	242E	342E
A/1	+ Excit.	+ Excit./Signal
B/2	+ Signal	NC
C/3	NC	NC
D/4	- Excit./Signal	- Excit./Signal
E/5	Rx Digital Communication	
F/6	Tx Digital Communication	

Some options will affect dimensions. Consult factory if important.

SPECIFICATIONS

Unless otherwise stated, these specifications are the standards to which the units are normally constructed. Alterations may be easily and readily accomplished by the standard modification code or by discussion with the factory. We invite your inquiry.

Accuracy	Within $\pm 0.1\%$ FSO, RSS (includes the effects of non-linearity, hysteresis, non-repeatability) $\pm 0.05\%$ FSO, RSS Available		
Zero Balance*	Model 242E	0.0 Vdc	0.1% FSO @ 70°F
	Model 342E	4.0 mA	$\pm 0.1\%$ FSO @ 70°F
Full Scale Output (FSO)*	Model 242E	5.0 Vdc	$\pm 0.05\%$ FSO @ 70°F
	Model 342E	20 mA	$\pm 0.05\%$ FSO @ 70°F
Materials in contact with measured fluids	Types 316 and 15-5 PH stainless steel		
Temperature Limits			
Compensated	0°F to +180°F		
Operating	-20°F to +190°F		
Temperature Compensation			
Zero	Within $\pm 0.0025\%$ FSO/°F		
Span	Within $\pm 0.0025\%$ FSO/°F		
Electricals			
Excitation Voltage	Model 242E	9-40 Vdc	
	Model 342E	9-36 Vdc	
Input Current	Model 242E	10 mA nominal	
Load Impedance	Model 342E	1350 ohms maximum at 36 Vdc	
Output Current	Model 242E	2.0 mA maximum, for less than 0.1% FSO attenuation	
Mechanicals			
Proof Pressure*	2 times full scale pressure range		
Burst Pressure	5 times full scale pressure range or 22,500 psi, whichever is less		
Case Materials	316 stainless steel		
Weight	5 oz. nominal		
Connections			
Pressure*	MS33656-4 (7/16-20 male thread)		
Electrical	Bendix PTIH-10-6P connector or equiv.		
Identification	Etched stainless steel nameplate welded to body		

* See modifications on ordering guide.

ORDERING GUIDE

Ordering: Specify model, and pressure range and indicate modifications or accessories required. Use the following codes to identify desired item.

MODEL	RANGE	TYPE	OPTIONS
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Example: 242E-RD-6-CM

MODEL

242E 0-5 Vdc
342E 4-20 mA

PRESSURE RANGE

psi

PP	15	RK	750
PR	20	RM	1,000
PT	30	RO	1,500
PV	50	RR	2,000
PX	75	RT	3,000
PZ	100	RV	5,000
RB	150	RX	7,500
RD	200	RZ	10,000
RF	300	SB	15,000
RH	500	SZ	Other

PRESSURE TYPE

3 Absolute
6 Sealed gauge

OPTIONS

CONNECTORS

AA PTIH-10-6P (Std)
DA DIN 43650, Form C with mate
CM PTIH-8-4P

PRESSURE PORT

AA MS33656-4 (7/16-20 male thread for 1/4" tubing) Std.
FJ 1/4" NPT male thread
FL 1/8" NPT male thread
LT SAE-4(M) 7/16-20 UNF
LH SAE-6(M) 9/16-18 UNF

GENERAL

GB Alternate electronic output, specify zero and span output values
GG Alternate shunt calibration signal
GH Internal shunt calibration, to 100% $\pm 0.5\%$ FSO
GS 0-10 Vdc FSO output (requires 16-40 Vdc excitation)
GZ Improved accuracy to 0.05% FSO
HL RFI Protection (increases length by 0.5")
QI Isolated Output (Model 242E only)

GP:50 reserves the right to make product improvements and amendments to the product specification stated throughout this brochure without prior notification. Please contact the factory on all critical dimensions and specifications for verification.