



LOW PRESSURE TRANSDUCER / TRANSMITTER

Models 130, 230, 330 / 131, 231, 331 with IA option

FEATURES:

- All-welded stainless steel construction
- State-of-the-art circuitry allows heavier diaphragm and increased fatigue life
- Standard options for every requirement

PRESSURE RANGES:

- From 0-25 to 0-1000 psig
(See ordering guide)

ACCURACY:

- 0.5% FSO



PLASTIC MELT PRESSURE

WIRING CODE

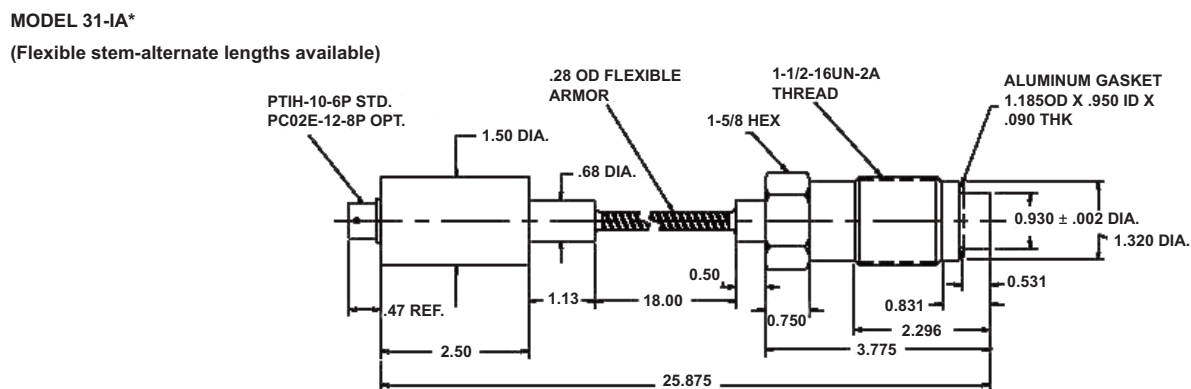
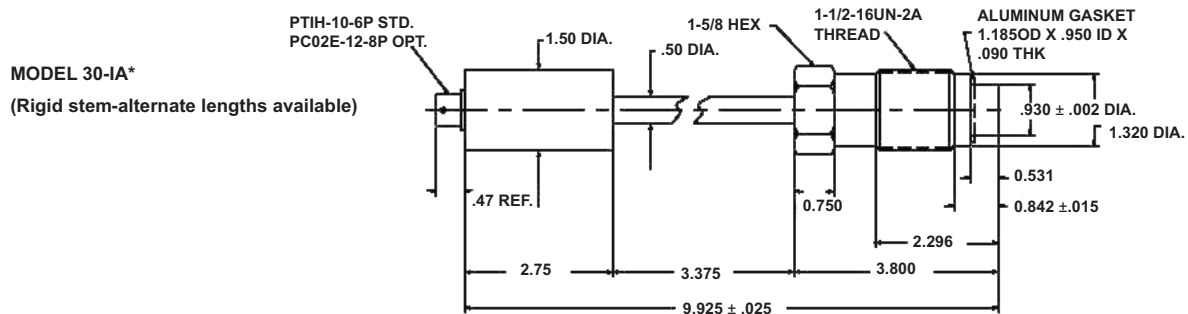
PTIH-10-6P	130, 131	230, 231	330, 331
A/1	+ SIGNAL	+ SIGNAL	+ EXC./SIGNAL
B/2	- SIGNAL	- SIGNAL**	COMMON WITH D/4*
C/3	+ EXC.	+ EXC.	NC
D/4	- EXC.	- EXC.**	- EXC./SIGNAL
E/5	CALIBRATE	CALIBRATE	NC OPTION ME
F/6	CALIBRATE	CALIBRATE	NC OPTION ME

PC02E-12-8P	130, 131	230, 231	330, 331
A/1	+ EXC.	+ EXC.	+ EXC./SIGNAL
B/2	+ SIGNAL	+ SIGNAL	NC
C/3	- EXC.	- EXC.**	NC
D/4	- SIGNAL	- SIGNAL**	- EXC./SIGNAL
E/5	CAL. (Common)	CAL. (Common)	NC OPTION ME
F/6	CAL. (Int. Res.)	CAL. (Int. Res.)	NC OPTION ME
G/7	NC	NC	NC
H/8	CAL. (Ext. Res.)	CAL. (Ext. Res.)	NC

PIGTAIL	330, 331
RED	+ EXC./SIGNAL
BLACK	- EXC./SIGNAL
SHIELD	NC

* -Excit./Signal for competitor wired mating connector assemblies.

** - Signal and - Excitation are common to each other.



* Some options may affect dimensions.

A5SL-30-IA.00



Pressure, Level & Temperature Transmitters & Transducers

Specifications reflect standard product, improved performance/mechanical options available. Modifications may alter specs, consult factory for more information.

Full Scale Pressure Ranges - See ordering guide		
Accuracy		
Static Error Band (Non-linearity, Hysteresis, Non-repeatability)	± 0.5% FSO(RSS)	
Material in Contact with Pressure Media		
Proof Pressure	2 times full scale pressure range	
Temperature Limits		
Diaphragm	750°F (400°C) Standard Fill	
Strain Gauge Housing	176°F (80°C)	
Temperature Effects		
From Fill		
Zero	1 psi/100°F per inch of stem and capillary	
From Strain Gauge Housing		
Zero	Less than ± 1.0% FSO/100°F (± 2.0% FSO/100°C)	
Span	Less than ± 1.0% FSO/100°F (± 2.0% FSO/100°C)	
Orientation Shift on Zero		
Unit length x2 inHg, Option GJ zero and span control strongly recommended		
Electricals		
	Excitation Voltage	Output at 70° F
Model 130/131	3.5-15 Vdc	3.33 mV/V ±2% FSO
Model 230/231	9-40 Vdc	5.0 Vdc ±2% FSO
Model 330/331	9-36 Vdc	4-20 mA ±2% FSO
Input Impedance		
Model 130, 131	350 ohm, nominal	
Input Current		
Model 230, 231	8 mA, nominal	
Load Impedance		
Model 130, 131	50,000 ohms minimum for less than 0.1% FSO attenuation	
Model 330, 331	1350 ohms maximum, at 36 Vdc and 750 ohms at 24 Vdc	
Output Current		
Model 230, 231	2.0 mA maximum for less than 0.1% FSO attenuation	
Zero Balance		
Model 130, 131	0.0 mV/V ± 5% FSO @ 70°F, vertical tip down	
Model 230, 231	0.0 Vdc ± 5% FSO @ 70°F, vertical tip down	
Model 330, 331	4.0 mA ± 5% FSO @ 70°F, vertical tip down	
Range Calibration Signal	80% ± 0.5% FSO standard 100, 200 series	
Connections		
Pressure	1 1/2" - 16 UNF-2A thread for standard PTIH-10-6P, standard	
Electrical	PT06A-10-6S (SR), standard mate (not included) See options.	
Enclosed Materials		
316 stainless steel		
Mounting Torque		
100 inch pounds		
Identification		
Etched stainless steel nameplate welded to body.		

ORDERING GUIDE:

Use the following codes to identify desired item.

MODEL	RANGE	TYPE	OPTIONS
•	-	•	-
•	-	•	•/•/•

Example: 130-IA-PO-3-CC

MODEL					
130-IA/131-IA	3.33 mV/V				
230-IA/231-IA	0-5 Vdc				
330-IA/331-IA	4-20 mA				
PRESSURE RANGE					
(PSI)		(BAR)			
PO	25	RE	250	UL	2
PT	30	RF	300	UM	3
PV	50	RH	500	UN	5
PX	75	RJ	600	UP	7.5
PZ	100	RK	750	UQ	10
RB	150	RM	1000	UR	15
RD	200				
PRESSURE TYPE					
2	Gauge				
3	Absolute				
6	Sealed Gauge				

OPTIONS	
AA	None (standard connector PTIH-10-6P)
ALTERNATE CONNECTOR OR CABLE	
CC	Bendix PC02E-12-8P (8 pin)
CD	Cannon WK6-32S,
CF	1/2" NPT(M) thread with 36" leads for conduit connection
GENERAL	
GB	Alternate Electronic Output - specify zero and span output values
GJ	Add Zero and Span Controls. (Approximately ± 20% FSO adjustment)
GN	12.5" Rigid Stem
GO	9" Rigid Stem
GP	Hastelloy C-276 Diaphragm and Thread
GS	0-10 Vdc FSO, Model 2xx only, (Requires 16-32 Vdc excitation)
GT	30" Armored Capillary Tube
GV	Silicone Oil Fill. (Increases Thermal Shift) Consult factory, 600°F max
GX	Mineral Oil Fill. (Increases Thermal Shift) Consult factory, 600°F max
GZ	Customer Special
HS	9" Armored Capillary Tube
HT	24" Rigid Stem
HU	4" Rigid Stem
HV	24" Armored Capillary Tube
HY	12" Armored Capillary Tube
JW	Titanium Nitride-Coated Diaphragm & Threads
ME	Internal Calibration Resister set to 80% ± 0.5% FSO (for 300 series units)
MO	Gentran Wiring
MP	Barber-Coleman Wiring

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