



**MELT PRESSURE  
TRANSDUCERS & TRANSMITTERS**  
2770 Long Road, Grand Island, NY 14072 USA  
Tel. (716)773-9300 • Fax (716)773-5019 • sales@gp50.com • www.gp50.com

## Product Specification Sheet

### LOW PRESSURE TRANSDUCER / TRANSMITTER

**Models 130, 230, 330 / 131, 231, 331 / 230X, 330X / 231X, 331X /  
330Z, 331Z / 230P, 330P / 231P, 331P with IAoption**



**\*REFER TO APPENDIX A  
FOR WIRING CODES\***

#### 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 through 0-1,000 psig (See ordering guide)

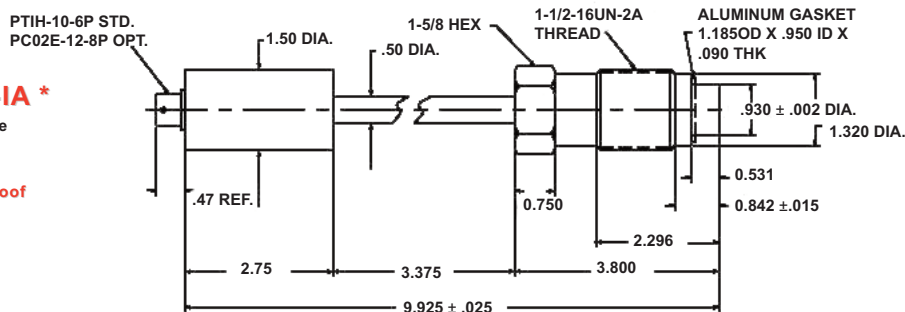
#### ACCURACY:

- 0.5% FSO

#### MODEL 30-IA \*

(Rigid stem-alternate lengths available)

**\*Non explosion proof**

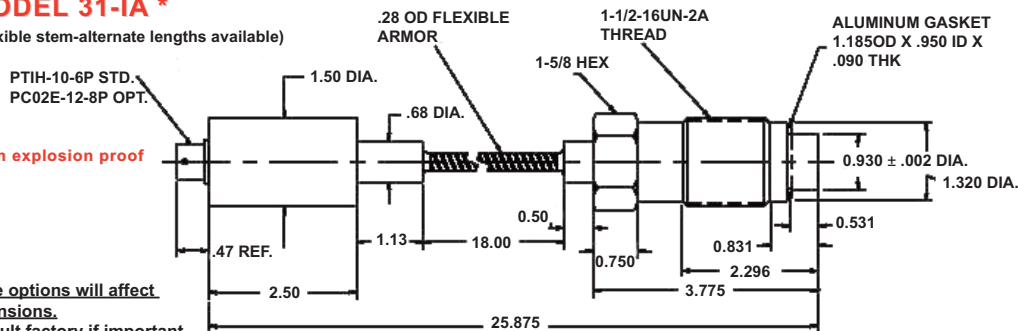


#### MODEL 31-IA \*

(Flexible stem-alternate lengths available)

**\*Non explosion proof**

Some options will affect dimensions.  
Consult factory if important.



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.



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

<b>Full Scale Pressure Ranges - See ordering guide</b>		
<b>Accuracy</b>		
Static Error Band (Non-linearity, Hysteresis, Non-repeatability)	± 0.5% FSO(RSS)	
Material in Contact with Pressure Media	316 stainless steel	
Proof Pressure	2 times full scale pressure range	
<b>Temperature Limits</b>		
Diaphragm	750°F (400°C) Standard Fill	
Strain Gauge Housing	176°F (80°C)	
<b>Temperature Effects</b>		
From Diaphragm		
Zero	1 psi/100°F	
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	
<b>Electricals</b>		
	<b>Excitation Voltage</b>	<b>Output at 70° F</b>
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	
<b>Connections</b>		
Pressure	1 1/2" - 16 UNF-2A thread for standard	
Electrical	PTIH-10-6P, standard 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

<b>MODEL</b>					
130-IA/131-IA			3.33 mV/V		
230-IA/231-IA			0-5 Vdc		
330-IA/331-IA			4-20 mA		
<b>PRESSURE RANGE</b>					
<b>(PSI)</b>				<b>(BAR)</b>	
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				
<b>PRESSURE TYPE</b>					
2	Gauge				
3	Absolute				
6	Sealed Gauge				

<b>OPTIONS</b>	
AA	None (standard connector PTIH-10-6P)
<b>ALTERNATE CONNECTOR OR CABLE</b>	
CC	Bendix PC02E-12-8P (8 pin)
CD	Cannon WK6-32S,
CF	1/2" NPT(M) thread with 36" leads for conduit connection
<b>GENERAL</b>	
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
MO	Gentran Wiring
MP	Barber-Coleman Wiring
QB	Custom Nameplate