



**MELT PRESSURE
TRANSDUCERS & TRANSMITTERS**
300 Industrial Drive, Grand Island, NY 14072 USA
Tel. (716)775-8830 • Fax (716)775-8020 • sales@gp50.com • www.gp50.com

Product Specification Sheet

LOW PRESSURE TRANSDUCER / TRANSMITTER

Models 130, 230, 330 / 131, 231, 331 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)

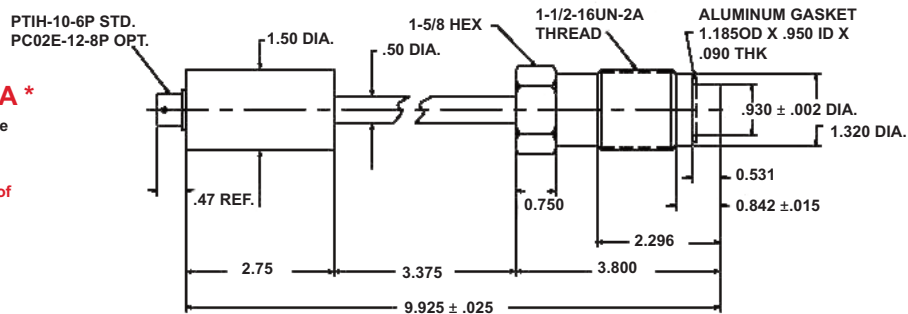
ACCURACY:

- 0.5% FSO

MODEL 30-IA *

(Rigid stem-alternate lengths available)

*Non explosion proof

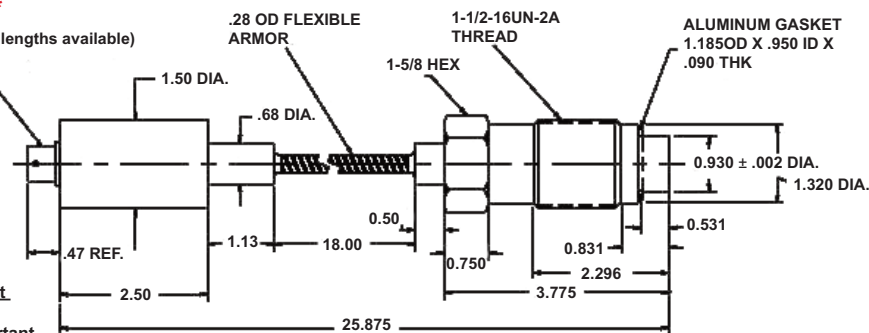


MODEL 31-IA *

(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.

Full Scale Pressure Ranges - See ordering guide			
Accuracy	(Non-linearity, Hysteresis, Non-repeatability)		
Static Error Band	± 0.5% FSO(RSS)		
Material in Contact with Pressure Media	316 stainless steel		
Proof Pressure	2 times full scale pressure range		
Temperature Limits	Diaphragm	Strain Gauge Housing	
	750°F (400°C) Standard Fill	176°F (80°C)	
Temperature Effects			
From Diaphragm	Zero		
	1 psi/100°F		
From Strain Gauge Housing	Zero / 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			
Model 130, 131	Excitation Voltage	Output at 70° F	
Model 230, 231	3.5-15 Vdc	3.33 mV/V ±2% FSO	
Model 330, 331	9-40 Vdc	5.0 Vdc ±2% FSO	
	9-36 Vdc	4-20 mA ±2% FSO	
Model 130, 131	Input Impedance	Input Current	Output Current
Model 230, 231	350 ohm, nominal	8 mA, nominal	
Model 230, 231			2.0 mA maximum for less than 0.1% FSO attenuation
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		
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	Electrical	
	1 1/2" - 16 UNF-2A thread for standard	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

Model: X 3X - IA - XX / XX / XX / XX / XX / XX

ELECTRICAL OUTPUT	
1	3.33 mV/V
2	0-5 Vdc
3	4-20 mA

BASE MODEL	
0	Rigid Stem Only
1	Rigid Stem and Flex

THREAD TYPE	
IA	1-1/2-16UN-2A Thread

PRESSURE RANGE			
PO	25 PSI	UL	2 BAR
PT	30 PSI	UM	3 BAR
PV	50 PSI	UN	5 BAR
PX	75 PSI	UP	7.5 BAR
PZ	100 PSI	UQ	10 BAR
RB	150 PSI	UR	15 BAR
RD	200 PSI	US	20 BAR
RE	250 PSI	UT	30 BAR
RF	300 PSI	UV	50 BAR
RH	500 PSI	UX	75 BAR
RJ	600 PSI	SZ	Custom
RK	750 PSI		
RM	1,000 PSI		

CONNECTOR OPTIONS	
Blank	6-Pin Bendix (PTIH-10-6P)
CC	8-Pin Bendix (PCO2E-12-8P)
CF	1/2" NPT (M) Thread with 36° Leads

CAPILLARY TUBE LENGTH	
Blank	18 Inch (457.2mm) Flex
HS	9 Inch (228.6mm) Flex
HY	12 Inch (304.8mm) Flex
HV	24 Inch (609.6mm) Flex
GT	30 Inch (762mm) Flex

RIGID STEM LENGTH	
Blank	6 Inch (152.4mm) Rigid Stem
HJ	1 3/16 Inch (30.2mm) Rigid Stem
HD	3 Inch (76.2mm) Rigid Stem
HU	4 Inch (101.6mm) Rigid Stem
GO	9 Inch (228.6mm) Rigid Stem
GN	12.5 Inch (317.5mm) Rigid Stem
HT	24 Inch (609.6mm) Rigid Stem

DIAPHRAGM OPTIONS	
Blank	15-5 PH Diaphragm
GP	Hastelloy C-276 Diaphragm & Threads
GQ	Boron Hardened Diaphragm
JW	Titanium Nitride Coated Diaphragm & Threads
QS	Diamond Coating (DLC)

FILL TYPES	
Blank	Mercury (Standard - Included)
QJ	Nak Fill (750°F Max)
GW	Nak Fill with Inconel Diaphragm (1000°F Max)
GV	Silicon Oil Fill (500°F Max)
GX	Mineral Oil Fill (500°F Max)

* Other Options Available - Consult Factory