



**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

PRESSURE TRANSDUCER / TRANSMITTER w/ HART COMMUNICATION

**Models 330-QO, 331-QO, 335-QO /
330X, 331X, 335X / 330P, 331P, 335P with QO Option**



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

FEATURES:

- All-welded stainless steel construction
- HART communication, compatible w/ HART communicator
- 3:1 Ranging
- Interchangeable with existing systems
- State-of-the-art circuitry allows heavier diaphragm & increased fatigue life
- FM Explosion Proof Available

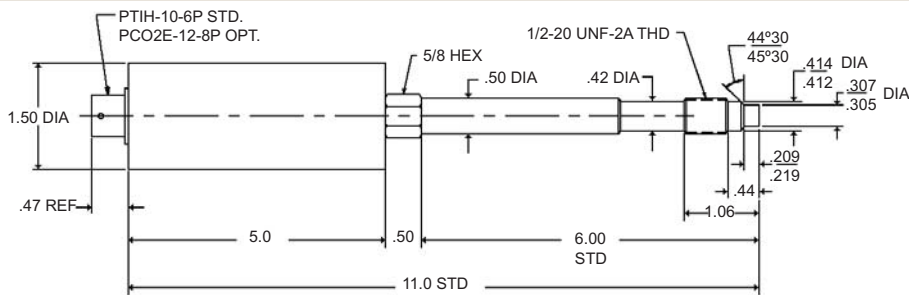
(Class I, II, III, Division I, Groups A, B, C, D, E, F, G)

PRESSURE RANGES:

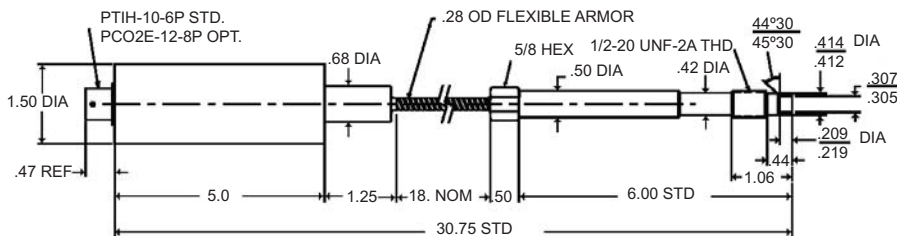
- From 0-500 through 0-30,000 psig

ACCURACY:

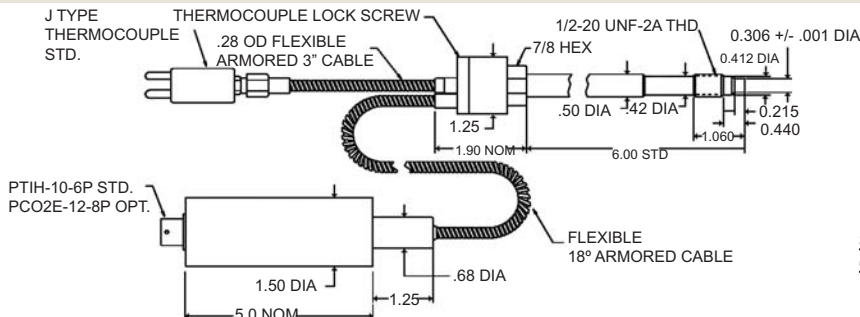
- $\pm 0.25\%$ FSO



MODEL 330



MODEL 331



MODEL 335

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 Output	4-20 mA ± 2% FSO	
Accuracy	Static Error Band (Non-linearity, Hysteresis, Non-repeatability) ± 0.25% FSO (RSS)	
Material in Contact with Pressure Media	15-5 PH stainless steel and hard chrome plated diaphragm surface (other options available, see ordering guide)	
Proof Pressure	2 times full scale pressure range or 35,000 psi, whichever is less	
Temperature Limits	Diaphragm 750°F (400°C)	Strain Gauge Housing 176°F (80°C)
Temperature Effects	From Diaphragm Zero 15 psi/100°F From Strain Gauge Housing Zero / Span Less than ±1.0% FSO/100°F (±2.0% FSO/100°C)	
Electricals	Excitation Voltage 9-36 Vdc	Output at 70° F 4-20 mA ±2% FSO
Load Impedance	50,000 ohms minimum. for less than 0.1%	
FSO attenuation	1350 ohms maximum, at 36 Vdc	
Zero Balance	4.0 mA ±5% FSO @ 70°F	
Connections	Pressure 1/2" - 20 UNF-2A	Electrical PTIH-10-6P, standard
Enclosed Materials	316 stainless steel	
Mounting Torque	500 inch pounds, maximum	

ORDERING GUIDE

Model: **X** **3X** - **QO** **X** - **XX** - **XX** / **XX** / **XX** / **XX** / **XX**

ELECTRICAL OUTPUT	
3	4-20 mA

BASE MODEL	
0	Rigid Stem
1	Rigid Stem & Flex
5	Rigid Stem & Flex with J-Type Thermocouple

COMMUNICATIONS	
QO	HART® Communications

HAZARDOUS APPROVAL	
Blank	No Approvals
X	FM Explosion Proof
P	FM & CSA Explosion Proof

PRESSURE RANGE			
RH	500 PSI	UV	50 BAR
RJ	600 PSI	UX	75 BAR
RK	750 PSI	UY	100 BAR
RM	1,000 PSI	UZ	150 BAR
RO	1,500 PSI	VA	200 BAR
RR	2,000 PSI	VB	300 BAR
RS	2,500 PSI	VC	350 BAR
RT	3,000 PSI	VD	500 BAR
RV	5,000 PSI	VE	700 BAR
RX	7,500 PSI	VF	750 BAR
RZ	10,000 PSI	UA	1,000 BAR
SB	15,000 PSI	UH	1,400 BAR
SD	20,000 PSI	UB	1,500 BAR
SF	30,000 PSI	UC	2,000 BAR
SZ	Custom	SZ	Custom

CONNECTOR OPTIONS	
Blank	6-Pin Bendix (PTIH-10-6) - Standard for Non Approved Transmitters
Blank	1/2" NPT (M) Thread with 72" Leads - Standard for Explosion Proof Transmitters
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 Armoloy Coated 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)

* Non Explosion Proof Transmitters Only

* Other Options Available - Consult Factory