



**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

SPACE RESTRICTED, HIGH PRESSURE TRANSDUCER / TRANSMITTER

**Models 131, 231, 331 / 231X, 331X / 331Z /
231P, 331P with IB option**



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

FEATURES:

- All-welded, stainless steel construction
- Exposed capillary and jam bushing for confined spaces
- State-of-the-art circuitry allows heavier diaphragm and increased fatigue life
- Standard options for every requirement

PRESSURE RANGES:

- From 0-500 through 0-30,000 psig
(See ordering guide)

ACCURACY:

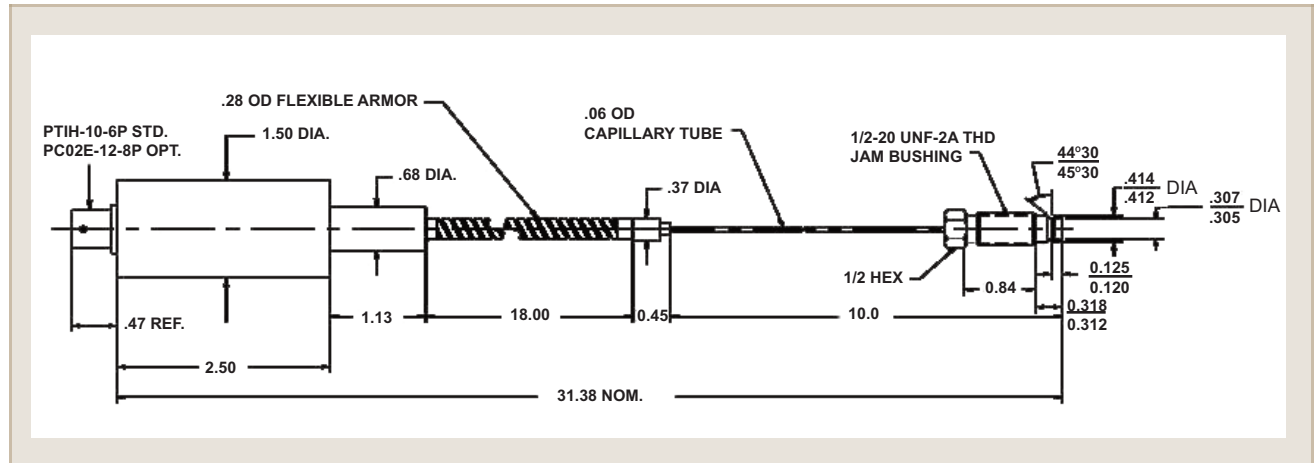
- ± 1.0% FSO, 500 psi through 3000 psi
- ± 0.25% FSO, 5000 psi through 30,000 psi

MODELS 131, 231, 331

The flexible tube of the product line provides the ultimate in thermal isolation for those demanding applications reaching the upper limits of 750°F. Provided with a standard 18 inch length of flexible stainless steel armored capillary tubing and approximately 10" of exposed capillary, (see outline drawing), they can be provided in shorter or longer lengths, with or without the armor, for machine geometries requiring alternative packages. Many variations are possible.

Please call the factory for free consultation on your needs.

* Non explosion proof diaphragm shown below



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	± 1.0% FSO(RSS) 500 through 3000 psi ± .25% FSO(RSS) 5000 through 30000 psi	
Material in Contact with	15-5 PH stainless steel and hard chrome plated diaphragm surface	
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	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 131	3.5-15 Vdc	3.33 mV/V ±2% FSO
Model 231	9-40 Vdc	5.0 Vdc ±2% FSO
Model 331	9-36 Vdc	4-20 mA ±2% FSO
Input Impedance		
Model 131	350 ohm, nominal	
Input Current		
Model 231	8 mA, nominal	
Load Impedance		
Model 131	50,000 ohms minimum for less than 0.1% FSO attenuation	
Model 332	1350 ohms maximum, at 36 Vdc and 750 ohms at 24 Vdc	
Output Current		
Model 231	2.0 mA maximum for less than 0.1% FSO attenuation	
Zero Balance		
Model 131	0.0 mV/V ± 5% FSO @ 70°F,	
Model 231	0.0 Vdc ± 5% FSO @ 70°F,	
Model 331	4.0 mA ± 5% FSO @ 70°F,	
Range Calibration Signal	80% ± 0.5% FSO standard 100, 200 series	
Connections		
Pressure	1/2" - 20 UNF-2A jam bushing standard	
Electrical	PTIH-10-6P, standard PT06A-10-6S (SR), standard mate (not included) See options.	
Enclosed Materials	316 stainless steel	
Mounting Torque	500 inch pounds, maximum	
Identification	Etched stainless steel nameplate welded to body.	

ORDERING GUIDE

Use the following codes to identify desired item.

MODEL	PORT	OPTIONS
•	—	•/•/•

Example: 131-IB-RV-CF/GJ

MODEL

131-IB	3.33 mV/V
231-IB	5 Vdc
331-IB	4-20 mA

PRESSURE RANGE

(PSI)		(BAR)	
RH 500	RV 5000	UV 50	VD 500
RJ 600	RX 7500	UX 75	VE 700
RK 750	RZ 10000	UY 100	VF 750
RM 1000	SB 15000	UZ 150	UA 1000
RO 1500	SD 20000	VA 200	UH 1400
RR 2000	SF 30000	VB 300	UB 1500
RS 2500	SZ Other	VC 350	UC 2000
RT 3000			

OPTIONS

AA None (standard connector PTIH-10-6P)

ALTERNATE CONNECTOR OR CABLE

CC	Bendix PC02E-12-8P, [Mate: PC06A-12-8S-(SR), not included]
CD	Cannon WK6-32S, [Mate: WK6-21C, not included]
CF	1/2" NPT(M) thread with 24" potted leads
CZ	Alternate connector/ cable/ other

ALTERNATE PRESSURE POST

FB	M18 X 1.5 Metric jam bushing
FG	M14 X 1.5 Metric jam bushing
FZ	Non-Standard pressure port

GENERAL

GB	Alternate Electronic Output - specify zero and span output values
GP	Hastelloy C-276 Diaphragm and Thread
GQ	Boron-Hardened diaphragm
GS	0-10 Vdc FSO, Model 2xx only, (Requires 16-32 Vdc excitation)
GT	30" Armored Capillary Tube (exposed capillary approx. 10")
GV	Silicone Oil Fill. (Increases Thermal Shift) Consult factory
GX	Mineral Oil Fill. (Increases Thermal Shift) Consult factory
HS	9" Armored Capillary Tube (exposed capillary approx. 19")
HV	24" Armored Capillary Tube (exposed capillary approx. 10")
HY	12" Armored Capillary Tube (exposed capillary approx. 16")
JW	Titanium Nitride-Coated Diaphragm & Threads
GJ	Add Zero and Span Controls. (Approximately ±20% FSO adjustment)
GZ	Customer Special
MO	Gentran Wiring
MP	Barber-Coleman Wiring
QB	Custom Nameplate