FLANGE MOUNTED LOW PRESSURE TRANSDUCER/TRANSMITTER

Models 130, 230, 330
131, 231, 331 w/ FX/FY option

Shown with Option CF
1/2" NPT conduit

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

MODEL	OUTPUT @ 70° F	EXCITATION
130/131	3.33 mV/V ± 2% FSO	3.5-15 Vdc
230/231	5.0 Vdc ± 2% FSO	9-40 Vdc
330/331	4-20 mA ± 2% FSO	9-36 Vdc

2770 Long Road, Grand Island, NY 14072 USA
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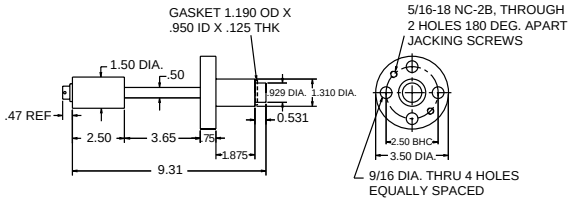
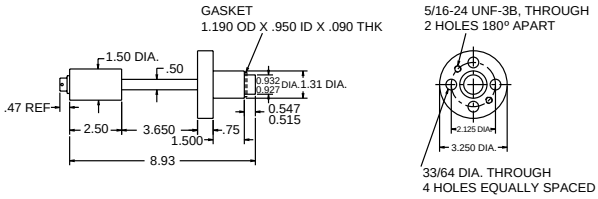
OUTLINE

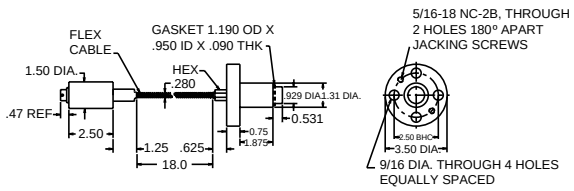
MODEL 30-FX



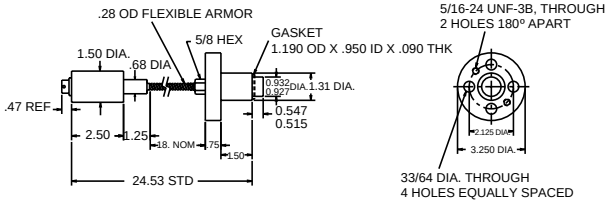
MODEL 30-FY



MODEL 31-FX



MODEL 31-FY



MODELS 130, 230, 330

These are the rigid stem versions of GP:50's plastic melt pressure transducers. Available in a standard length of 3.65 inches, they may be ordered in longer or shorter lengths to accommodate individual needs (See outline drawing & close up). The limiting minimums may be the die temperature and environment which must jointly combine to restrict the electronics and sensor from exceeding 180°F.

MODELS 131, 231, 331

The flexible tube version 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 capillary tubing protected with a stainless steel armored jacket, (see outline drawing), the flexible capillary can be provided in shorter or longer lengths. Please call the factory for free consultation on your needs.

WIRING CODE

PTIH-10-6P	130, 131	230, 231	330, 331
A/1	+ Signal	+ Signal	+ Excit./Signal
B/2	- Signal	- Signal**	Common with D/4*
C/3	+ Excit.	+ Excit.	NC
D/4	- Excit.	- Excit.**	- Excit./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	+ Excit.	+ Excit.	+ Excit./Signal
B/2	+ Signal	+ Signal	NC
C/3	- Excit.	- Excit.**	NC
D/4	- Signal	- Signal**	- Excit./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	+ Excit./Signal
Black	- Excit./Signal
Shield	NC

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

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

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SPECIFICATIONS

Unless otherwise stated, these specifications are the standards to which the units are normally constructed. Alterations may be easily and readily accomplished by the standard modification code or by discussion with the factory. We invite your inquiry.

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	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 Fill Zero From Strain Gauge Housing Zero Span	 1 psi/100°F per inch of stem and capillary Less than ± 1.0% FSO/100°F (± 2.0% FSO/100°C) 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 Input Impedance Model 130, 131 Input Current Model 230, 231 Load Impedance Model 130, 131 Model 330, 331 Output Current Model 230, 231 Zero Balance Model 130, 131 Model 230, 231 Model 330, 331 Range Calibration Signal	 350 ohm, nominal 8 mA, nominal 50,000 ohms minimum for less than 0.1% FSO attenuation 1350 ohms maximum, at 36 Vdc and 750 ohms at 24 Vdc 2.0 mA maximum for less than 0.1% FSO attenuation 0.0 mV/V ± 5% FSO @ 70°F, vertical tip down 0.0 Vdc ± 5% FSO @ 70°F, vertical tip down 4.0 mA ± 5% FSO @ 70°F, vertical tip down 80% ± 0.5% FSO standard 100, 200 series
Connections Pressure Electrical	 3.5" OD Flange (FX option) 3.25” OD Flange (FY option) PTIH-10-6P, standard PT06A-10-6S (SR), standard mate (not included) See options.
Enclosed Materials	316 stainless steel
Mounting Torque	110 inch pounds max
Identification	Etched stainless steel nameplate welded to body.

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ORDERING GUIDE

Ordering: Specify model, and pressure range and indicate modifications or accessories required.

Some options will affect dimensions.
Consult factory if important.

Use the following codes to identify desired item.

MODEL	FLANGE	RANGE	TYPE	OPTIONS
• —	• —	• —	• —	• / • / •

Example: 130-FX-PO-3-CC

MODEL

130/131 3.33 mV/V
230/231 0-5 Vdc
330/331 4-20 mA

FLANGE

FX 3.25”
FY 3.50”

PRESSURE RANGE

psi		bar	
PO	25	UL	2
PT	30	UM	3
PV	50	UN	5
PX	75	UP	7.5
PZ	100	UQ	10
RB	150	UR	15
RD	200	US	20
RE	250	UT	30
RF	300	UV	50
RH	500	UX	75
RJ	600		
RK	750		
RM	1000		

PRESSURE TYPE

2 Gauge
3 Absolute
6 Sealed Gauge

OPTIONS

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

ALTERNATE CONNECTOR OR CABLE

CC Bendix PCO2E-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 Nose
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
ME Internal Calibration Resister set to 80% ± 0.5% FSO (for 300 series units)
MO Gentran Wiring
MP Barber-Coleman Wiring

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