

# FLANGE MOUNTED LOW PRESSURE TRANSMITTER

**FOR HAZARDOUS ENVIRONMENTS**

**Models 330X, 331X**  
with FX, FY option

**Models 430X, 431X,**  
with FX, FY option



PLASTIC MELT PRESSURE

## FEATURES:

- All-welded stainless steel construction
- State-of-the-art circuitry allows heavier diaphragm and increased fatigue life
- Standard options for every requirement
- FM Explosion Proof Approved (Pending on 430X, 431X) (Class I, Division I, Class A, B, C, D)
- HART Communication available (430X, 431X)

## PRESSURE RANGES:

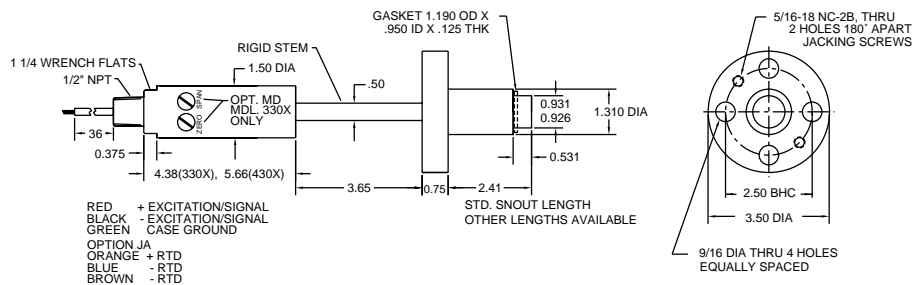
- From 0-25 to 0-10,000 psig

## ACCURACY:

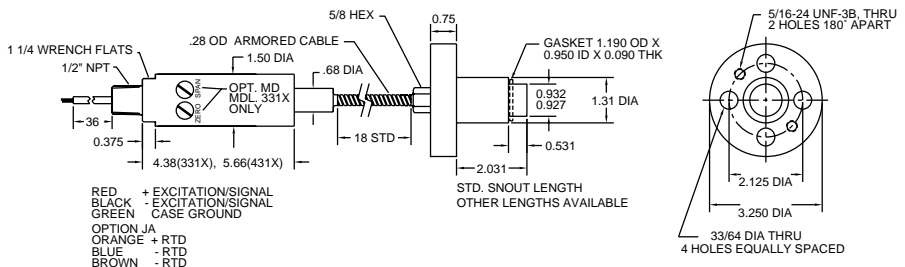
- 0.5% FSO standard, 0.25% FSO available
- 0.15% FSO available on Models 430X, 431X

MODEL	OUTPUT @ 70°F	EXCITATION
330X, 331X	4-20 mA ± 2% FSO	9-36 Vdc
430X, 431X	4-20 mA ± 2% FSO	12-36 Vdc

### MODELS 330X, 430X w/ FY option



### MODELS 331X, 431X w/ FX option



Units are inches.  
 Some options will affect dimensions.  
 Consult factory if important.

# 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.

Accuracy	Static Error Band (Non-linearity, Hysteresis, Non-repeatability, also includes Temperature effects for models 430X, 431X)	± 0.5% FSO (RSS) (330X, 331X), ± 0.5% FSO (RSS) ranges less than 500 psi (430X, 431X), ± 0.2% FSO (RSS) 500 through 3500 psi (430X, 431X), ± 0.15% FSO (RSS) 5000 through 30000 psi (430X, 431X)
Ranging (430X, 431X only)		3:1 25 through 2500 psi 5:1 3000 through 30000 psi
Material in Contact with Pressure Media		316 stainless steel / 15-5 PH diaphragm, Armoloy coated (hard chrome) Diamond, Boron or Titanium Nitride coatings optional
Proof Pressure		2 times full scale pressure range
Temperature Limits		
Diaphragm		600°F (315°C) Standard Fill
Strain Gauge Housing		176°F (80°C)
Temperature Effects		
From Fill (330X, 331X)		
Zero		2 psi/100°F at diaphragm
From Strain Gauge Housing (330X, 331X)		
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)
Fill & Housing (430X, 431X)		Included in accuracy
Orientation Shift on Zero		Unit length x2 inHg, Option MD zero and span controls strongly recommended on 330X, 331X
Electricals		
Load Impedance		
330X, 331X		1350 ohms maximum, at 36 Vdc and 750 ohms at 24 Vdc
430X, 431X		1200 ohms maximum, at 36 Vdc and 600 ohms at 24 Vdc
Zero Balance		
330X, 331X		4.0 mA ± 5% FSO @ 70°F, vertical tip down
430X, 431X		4.0 mA ± 0.2% FSO @ 70°F, vertical tip down
Connections		
Pressure		3.5" OD Flange, 3.25" OD Flange (see ordering guide)
Electrical		1/2" NPT (M) with 72" leads
Enclosed Materials		316 stainless steel
Mounting Torque		110 inch pounds max
Identification		Etched stainless steel nameplate welded to body.

## ORDERING GUIDE

Use The Following Codes To Identify Desired Item.

MODEL	RANGE	OPTIONS
•	—	• / • / •

Example: 331X-PO-FY

### MODEL

330X, 331X 4-20 mA  
430X, 431X 4-20 mA / Hart

### 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	UY 100
RK	750	UZ 150
RM	1000	VA 200
RO	1500	VB 300
RR	2000	VC 350
RS	2500	VD 500
RT	3000	VE 700
RV	5000	VF 750
RX	7500	UA 1000
RZ	10000	SZ Non-Standard Pressure Range or Engineering Units

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

### OPTIONS

CF 1/2" NPT(M) thread with 72" leads for conduit connection

### GENERAL

GB Alternate Electronic Output - specify zero and span output values  
MD Zero and Span Controls, 330X, 331X only. (Span adjustment ± 20% FSO, Zero adjustment +10% - 80% FSO for ranges below 500 psi, Zero adjustment ± 20% FSO for ranges 500 psi and up)  
GP Hastelloy C-276 Diaphragm and Nose  
QS Diamond coating  
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  
FX 3.25" Flange (2.03 Standard Snout Length)  
FY 3.50" Flange (2.41 Standard Snout Length)  
ME Internal Calibration Resister set to 80% ± 0.5% FSO  
JA 100 ohm 3 wire RTD (models 430X, 431X only)

### RIGID STEM (330X, 430X)

GN 12.5" Rigid Stem  
GO 9" Rigid Stem  
HU 4" Rigid Stem  
MU Non-Standard Rigid Stem

### FLEX TUBING (331X, 431X, 18" Standard)

GT 30" Armored Capillary Tube  
HS 9" Armored Capillary Tube  
HV 24" Armored Capillary Tube  
HY 12" Armored Capillary Tube  
MT Non-Standard Flex Tube, Specify Length

### SNOUT LENGTH

MU Non-Standard Snout Length, Specify

GP:50 reserves the right to make product improvements and amendments to the product specification stated throughout this brochure without prior notification. Please contact the factory on all critical dimensions and specifications for verification.