

# FLANGE MOUNTED PRESSURE TRANSMITTER & TEMPERATURE PROBE

**Models 335, 435 with FX, FY option**



## FEATURES:

- All-welded stainless steel construction
- State-of-the-art circuitry allows heavier diaphragm and increased fatigue life
- Standard options for every requirement
- HART Communication available (435)

## PRESSURE RANGES:

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

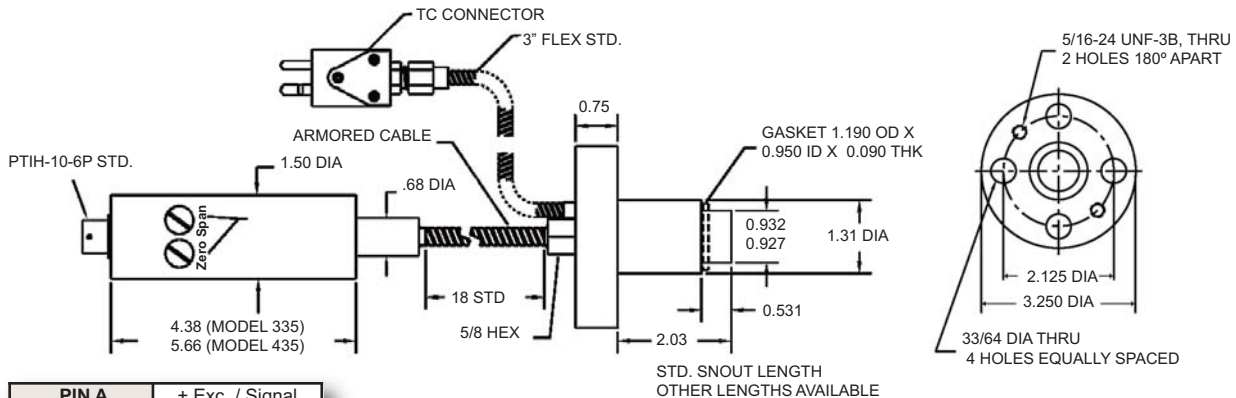
## ACCURACY:

- 0.5% FSO standard, 0.25% FSO available
- 0.15% FSO available on Models 435%



PLASTIC MELT PRESSURE

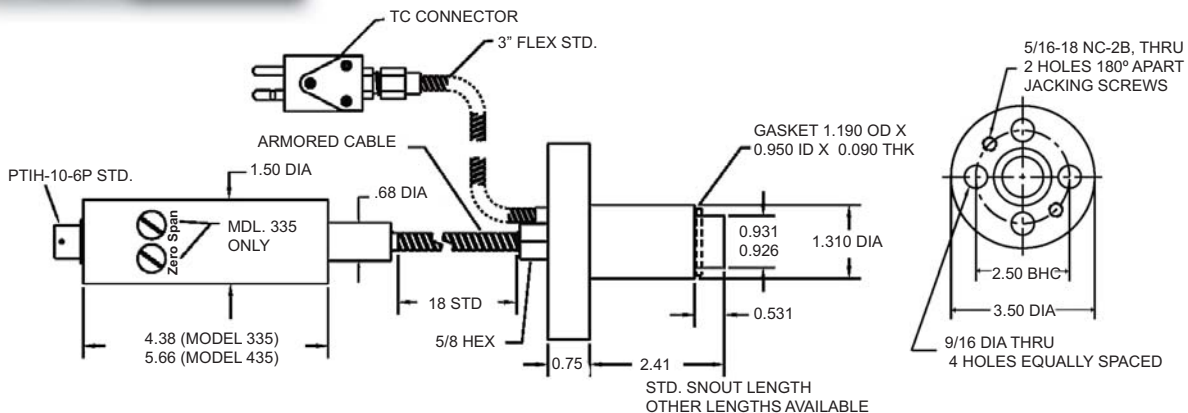
## MODELS 335, 435 w/FX option



PIN A	+ Exc. / Signal
PIN B	- Excit. / Signal
PIN C	NO CONNECTION
PIN D	NO CONNECTION
PIN E	RCAL (OPTION)
PIN F	RCAL (OPTION)

## MODELS 335, 435 w/FY option

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.

A5SL-35-FX-FY.00



# Pressure, Level & Temperature Transmitters & Transducers

Specifications reflect standard product, improved performance/mechanical options available. Modifications may alter specs, consult factory for more information.

<b>Accuracy</b>	<b>Static Error Band (Non-linearity, Hysteresis, Non-repeatability, also includes Temperature effects for model 435)</b> ± 0.5% FSO (RSS) (335) ± 0.5% FSO (RSS) ranges less than 500 psi (435) ± 0.2% FSO (RSS) 500 through 3500 psi (435) ± 0.15% FSO (RSS) 5000 through 30000 psi (435)	
<b>Ranging (435 only)</b>	3:1 25 through 2500 psi 5:1 3000 through 30000 psi	
<b>Material in Contact with Pressure Media</b>	316 stainless steel / 15-5 PH diaphragm, Armoloy coated (hard chrome) Diamond, Boron or Titanium Nitride coatings optional	
<b>Proof Pressure</b>	2 times full scale pressure range	
<b>Temperature Limits</b>	Diaphragm 600°F (315°C) Standard Fill Strain Gauge Housing 176°F (80°C)	
<b>Temperature Effects</b>	From Fill (335) Zero 2 psi/100°F at diaphragm From Strain Gauge Housing (335) <b>Zero</b> Less than ± 1.0% FSO/100°F (± 2.0% FSO/100°C) <b>Span</b> Less than ± 1.0% FSO/100°F (± 2.0% FSO/100°C) Fill & Housing (435) Included in accuracy	
<b>Electricals</b>	<b>Excitation Voltage</b>	<b>Output at 70° F</b>
(Model 335)	9-36 Vdc	4-20 mA ±2% FSO
(Model 435)	12-36 Vdc	4-20 mA ± 2% FSO
Load Impedance	1350 ohms max. at 36 Vdc & 750 ohms at 24 Vdc	
(Model 335)	1200 ohms maximum, at 36 Vdc and 600 ohms at 24 Vdc	
(Model 435)		
Zero Balance	4.0 mA ±5% FSO at 70°F vertical tip down	
(Model 335)	4.0 mA ±0.2% FSO at 70°F vertical tip down	
(Model 435)		
Zero Pot. Adjustment (335)	+ 10% - 80% FSO on ranges below 500 psi	
Span Pot. Adjustment (335)	± 20% FSO on ranges above 500 psi	
<b>Connections</b>	Pressure 3.5" OD Flange, 3.25" OD Flange (see ordering guide) Electrical PTIH-10-6P connector Thermocouple Standard 2 pole, 7/16" pin spacing	
<b>Enclosed Materials</b>	316 stainless steel	
<b>Mounting Torque</b>	110 inch pounds, maximum	
<b>Identification</b>	Etched stainless steel nameplate welded to body.	

## ORDERING GUIDE:

Use the following codes to identify desired item.

MODEL	RANGE	OPTIONS
•	+	•/•/•

Example: 331X-PO-FY

<b>MODEL</b>					
330X, 331X	4-20 mA				
430X, 431X	4-20 mA / Hart				
<b>PRESSURE RANGE</b>					
(PSI)			(BAR)		
PO 25	RJ 600	UL 2	UY 100		
PT 30	RK 750	UM 3	UZ 150		
PV 50	RM 1000	UN 5	VA 200		
PX 75	RO 1500	UP 7.5	VB 300		
PZ 100	RR 2000	UQ 10	VC 350		
RB 150	RS 2500	UR 15	VD 500		
RD 200	RT 3000	US 20	VE 700		
RE 250	RV 5000	UT 30	VF 750		
RF 300	RX 7500	UV 50	UA 1000		
RH 500	RZ 1000	UX 75	SZ	Non-Stand. Pressure Range or Engineering Units	

## OPTIONS

<b>CF</b>	1/2" NPT(M) thread with 72" leads for conduit connection
<b>GENERAL</b>	
<b>GB</b>	Alternate Electronic Output - specify zero and span output values
<b>MD</b>	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)
<b>GP</b>	Hastelloy C-276 Diaphragm and Nose
<b>QS</b>	Diamond coating
<b>GV</b>	Silicone Oil Fill. (Increases Thermal Shift) Consult factory, 600°F max
<b>GX</b>	Mineral Oil Fill. (Increases Thermal Shift) Consult factory, 600°F max
<b>GZ</b>	Customer Special
<b>FX</b>	3.25" Flange (2.03 Standard Snout Length)
<b>FY</b>	3.50" Flange (2.41 Standard Snout Length)
<b>ME</b>	Internal Calibration Resister set to 80% ± 0.5% FSO
<b>JA</b>	100 ohm 3 wire RTD (models 430X, 431X only)
<b>RIGID STEM (330X, 430X)</b>	
<b>GN</b>	12.5" Rigid Stem
<b>GO</b>	9" Rigid Stem
<b>HU</b>	4" Rigid Stem
<b>MU</b>	Non-Standard Rigid Stem
<b>FLEX TUBING (331X, 431X, 18" Standard)</b>	
<b>GT</b>	30" Armored Capillary Tube
<b>HS</b>	9" Armored Capillary Tube
<b>HV</b>	24" Armored Capillary Tube
<b>HY</b>	12" Armored Capillary Tube
<b>MT</b>	Non-Standard Flex Tube, Specify Length
<b>SNOUT LENGTH</b>	
<b>MU</b>	Non-Standard Snout Length, Specify

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