



**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**

**FLANGE MOUNTED PRESSURE TRANSMITTER  
& TEMPERATURE PROBE  
Models 335, 435 with FX, FY option**



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

**FEATURES:**

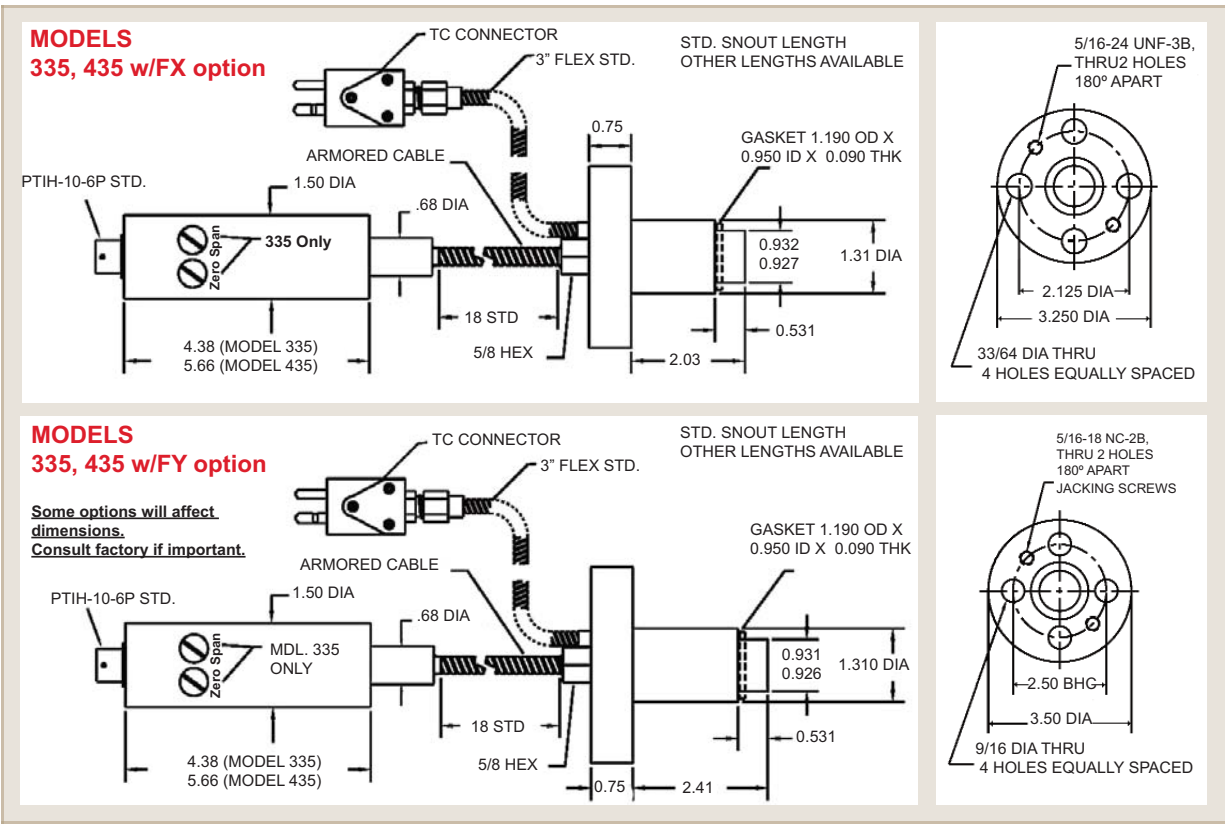
- All-welded stainless steel construction
- State-of-the-art circuitry allows heavier diaphragm and increased fatigue life
- Standard options for every requirement
- HART Communication available (435)

**PRESSURE RANGES:**

- From 0-25 through 0-10,000 psig (See ordering guide)

**ACCURACY:**

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



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.

<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) From Strain Gauge Housing (335) Fill & Housing (435)	<b>Zero</b> - 2 psi/100°F at diaphragm <b>Zero/Span</b> - Less than ±1.0% FSO/100°F (± 2.0% FSO/100°C) Included in accuracy	
<b>Electricals</b> (Model 335) (Model 435)  Zero Balance  Load Impedance	<b>Excitation Voltage</b> 9-36 Vdc 12-36 Vdc  (Model 335) 4.0 mA ±5% FSO at 70°F vertical tip down  1350 ohms max. at 36 Vdc & 750 ohms at 24 Vdc  <b>Zero Pot. Adjustment (335)</b> +10% - 80% FSO on ranges below 500 psi	<b>Output at 70° F</b> 4-20 mA ±2% FSO 4-20 mA ± 2% FSO  (Model 435) 4.0 mA ±0.2% FSO at 70°F vertical tip down  1200 ohms maximum, at 36 Vdc and 600 ohms at 24 Vdc  <b>Span Pot. Adjustment (335)</b> ± 20% FSO on ranges above 500 psi
<b>Connections</b> Pressure Electrical Thermocouple	3.5" OD Flange, 3.25" OD Flange (see ordering guide) PTIH-10-6P connector 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

Model: X 35 - XX - FX / XX / XX / XX / XX

ELECTRICAL OUTPUT	
1	3.33 mV/V
2	0-5 Vdc
3	4-20 mA

BASE MODEL	
35	Flex Stem with J-Type Thermocouple

PRESSURE RANGE			
PO	25 PSI	UL	2 BAR
PT	30 PSI	UM	3 BAR
PV	50 PSI	UN	5 BAR
PX	75 PSI	UP	7.5 BAR
PZ	100 PSI	UQ	10 BAR
RB	150 PSI	UR	15 BAR
RD	200 PSI	US	20 BAR
RE	250 PSI	UT	30 BAR
RF	300 PSI	UV	50 BAR
RH	500 PSI	UX	75 BAR
RJ	600 PSI	SZ	Custom
RK	750 PSI		
RM	1,000 PSI		

FLANGE TYPE	
X	3.25 Diameter Flange
Y	3.50 Diameter Flange

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

DIAPHRAGM OPTIONS	
Blank	15-5 PH 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)

CONNECTOR OPTIONS	
Blank	6-Pin Bendix (PTIH-10-6P)
CC	8-Pin Bendix (PCO2E-12-8P)
CF	1/2" NPT (M) Thread with 36" Leads

\* Other Options Available - Consult Factory