

SMART RANGEABLE MELT PRESSURE TRANSMITTER

MODELS 430, 431 / 430X, 431X, / 430P, 431P

The GP:50 product line of melt pressure transducers and transmitters are based on the bonded strain gauge principle that has been successfully utilized in thousands of applications. Our proprietary diaphragm design incorporates a matched diaphragm system with improves linearity, accuracy, and repeatability. The unit operation utilizes an extremely small capillary tubing that transmits the media pressure to the strain gauge sensor and mating electronics via a mechanical fill fluid.



FEATURES

- ◆ Completely Welded Stainless Steel Construction
- ◆ HART® Communication
- ◆ FM Explosion Proof available (Class I, II, II, Div. I, Groups A -G)

PRESSURE RANGES

From 0-500 to 0-30,000 PSI

ACCURACY

±0.15% FSO



Consult Factory for hazardous location approval availability.

MADE IN THE U.S.A.

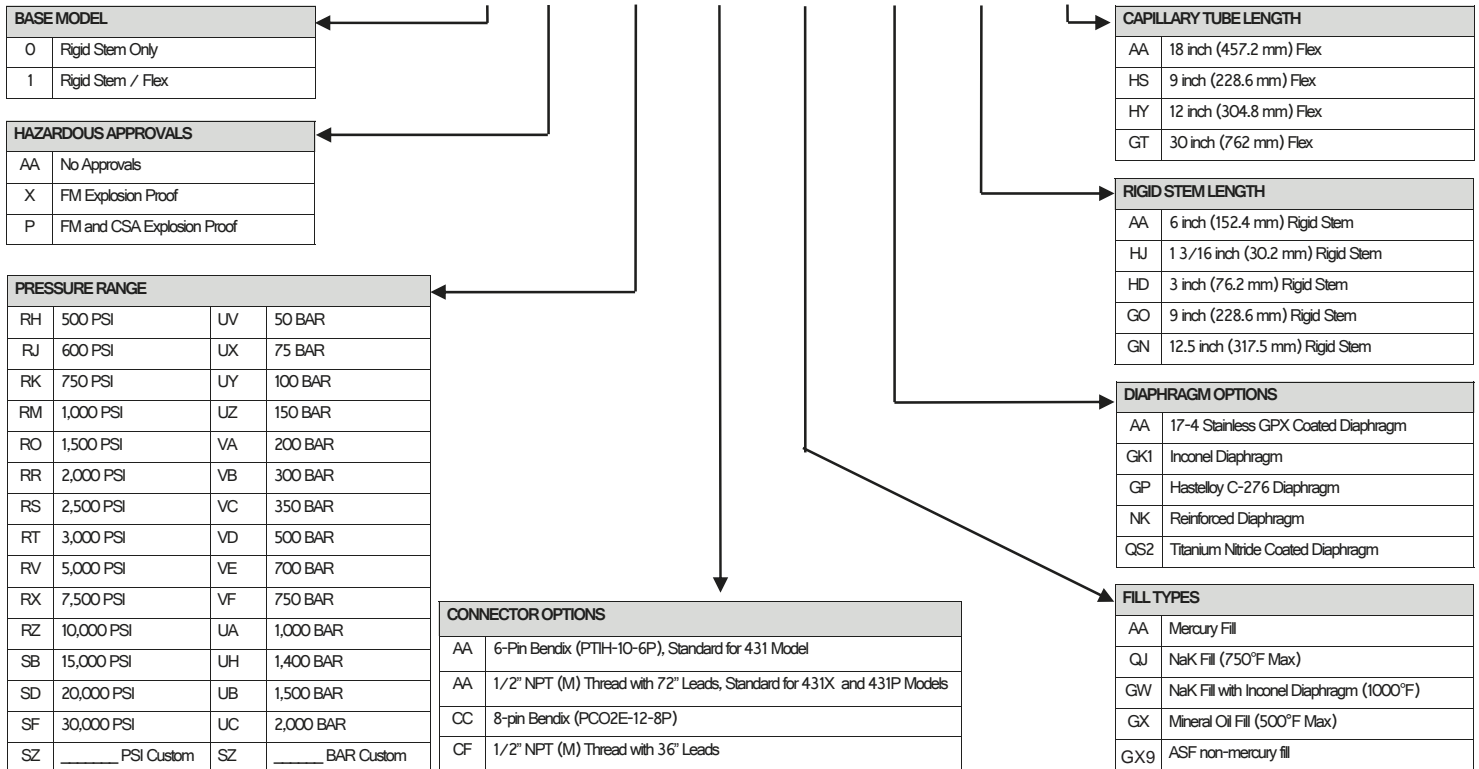
SPECIFICATIONS

Accuracy	Static Error Band (Non-linearity, Hysteresis, Non-Repeatability, includes temperature effects) ±0.25% FSO (RSS) 500 through 3,000 psi ±0.15% FSO (RSS) 5,000 through 30,000 psi	
Ranging	3:1 (500 through 2,500 psi) 5:1 (3,000 through 30,000 psi)	
Operating Temperature Range (Compensated)	Process 77°F to 575°F (25°C to 300°C), optional to 660°F (350°C) Electronics 77°F to 176°F (25° C to 80° C)	
Temperature Effects from Electronics	Less than ±0.15% FSO / 100°F	
Electricals	Excitation Voltage	Output at 70°F
(Model 430, 431, 430X, 431X)	12-36 Vdc	4-20 mA ± 0.1% FSO
	Load Impedance	250 ohms minimum (for HART® Communication) @ 17 Vdc; 1200 ohms at 36 Vdc
	Output Current	4-20 mA ±0.1% FSO at 70°F
Connections	Pressure	Electrical
	1/2" - 20—UNF—2A	430, 431: PTIH—10—6P standard (Mate not included) 430X, 431X: 1/2" NPT (M) Thread with 72" Leads
Enclosed Materials	316 Stainless Steel	
Mounting Torque	180-200 inch pounds, 500 inch pounds thread limitation	
Identification	Laser etched	

ORDERING GUIDE

MODEL: 43X—XX / XX / XX / XX / XX / XX / XX

Example P/N: 430X-RX-QO/AA



Other Options Available—Consult Factory / Authorized Distributor

Option "AA" denotes standard