

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

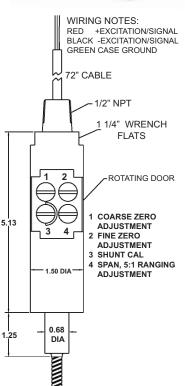
Product Specification Sheet

PLASTIC MELT PRESSURE TRANSMITTER

W/ NON-INTRUSIVE ZERO & SPAN CONTROLS FOR HAZARDOUS ENVIRONMENTS

Model 331X/331P with QE option





5/8 HEX

FEATURES:

- Rugged, all-welded, all stainless steel construction.
- Interchangeable with existing systems.
- · Many options available, Hastelloy C-276 or Boron-Hardening
- FM Explosion-Proof (Class I, Division I, Groups A, B, C, D)
- · Magnetically coupled zero & span adjustments & shunt cal switch
- Coarse Zero Adjustment, approximately ± 20% of upper range
- Fine Zero Adjustment, approximately ± 0.5% of upper range
- · Span Adjustment, 5:1 Ranging optional
- Internal Calibration Resistor set to 80% standard (for 5:1 ranging option cal is 100% for lower range and 20% for upper range)

PRESSURE RANGES:

From 0-500 through 0-15,000 psig (See ordering guide)

ACCURACY:

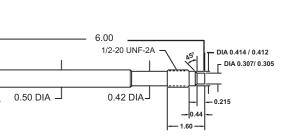
(Non -Linearity, Hysteresis, Non-repeatability)

- ± 0.25% FSO, RSS (0-5000 psi & higher)
- ± 0.5% FSO, RSS (0-500 and 0-3500 psi)

GENERAL

The GP:50 product line of melt pressure transducers and transmitters are based on the proven bonded strain gage principle successfully utilized in thousands of applications. Our unique design incorporates a heavier sensor allowing a thicker tip diaphragm, provides better linearity, and reduces costs.

The design incorporates an extremely small capillary tubing that transmits the media pressure to the strain gage sensor and mating electronics via a mechanical fill fluid. (Mercury is the standard, silicone and mineral oil are readily available depending on the application).



REFER TO APPENDIX A FOR WIRING CODES

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.

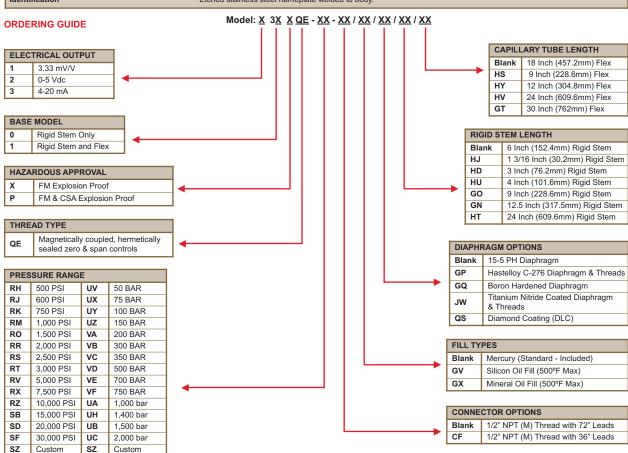


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Specifications reflect standard product, improved performance/mechanical options available. Modifications may alter specs, consult factory for more information.

Accuracy	Static Error Band (Non-linearity, Hysteresis, Non-repeatability) ± 0.5% FSO(RSS) 500 through 3000 psi ± .25% FSO(RSS) 5000 through 15000 psi 15-5 PH stainless steel and hard chrome plated diaphragm surface. Diamond, Boron and Titanium Nitride coatings optional.	
Material in Contact with Pressure Media		
Proof Pressure	2 times full scale pressure range or 35,000 psig whichever is less	
Temperature Limits	Diaphragm 750°F (400°C)	Strain Gauge Housing 176°F (80°C)
Temperature Effects	From Diaphragm Zero - 15 psi/100°F	From Strain Gauge Housing Zero / Span - Less than ± 1.0% FSO/100°F (± 2.0% FSO/100°C)
Electricals		
(Model 331X)	Excitation Voltage 9-36 Vdc	Output at 70° F 4-20 mA ±2%
Zero Balance (Model 330/331)	4.0 mA ±5% FSO at 70°F	
Load Impedance (Model 330,331)	1350 ohms max. at 36 Vdc & 750 ohms at 24 Vdc	
Range Calibration Signal	20% at upper range, 100% at lower range	
Connections Pressure Electrical	1/2" - 20 UNF-2A thread for standard (M18 x 1.5 metric thread optional) 1/2" NPT (M) thread with 72" cable, 18 AWG wires	
Enclosed Materials	316 stainless steel	
Mounting Torque	500 inch pounds, maximum	
Identification	Etched stainless steel nameplate welded to body.	



^{*} Other Options Available - Consult Factory