



**MELT PRESSURE
TRANSDUCERS & TRANSMITTERS**
2770 Long Road, Grand Island, NY 14072 USA
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Product Specification Sheet
SMART RANGEABLE MELT PRESSURE TRANSMITTER
Models 430, 431 / 430X, 431X / 430P, 431P



FEATURES:

- Rugged, all-welded stainless steel construction
- Interchangeable with existing systems
- HART® Communication
- Many options available, including Hastelloy C-276 or Boron Hardening

PRESSURE RANGES:

- From 0-500 through 0-30,000 psig
(See ordering guide)

ACCURACY:

- (Non -Linearity, Hysteresis, Non-repeatability)
- $\pm 0.15\%$ FSO, RSS (0-5000 psi and higher)
 - $\pm 0.2\%$ FSO, RSS (0-3500 psi and lower)



Consult factory for hazardous location approval availability.

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

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, includes temperature effects) ± 0.25% FSO(RSS) 500 through 3500 psi ± 0.15% FSO(RSS) 5000 through 30000 psi	
Ranging	3:1 (500 through 2500 psi) 5:1 (3000 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)	12-36 Vdc	4-20 mA ± 0.1%
(Model 430X/431X)	12-36 Vdc	4-20 mA ± 0.1%
Load Impedance	250 ohms minimum (for HART® communication) @ 17Vdc 1200 ohms maximum, at 36 Vdc	
Output Current	4-20 mA ±0.1% FSO @ 70°F	
Connections		
Pressure	1/2"-20 UNF-2A thread for standard (M18 x 1.5 metric thread optional)	
Electrical (430, 431)	PTIH-10-6P standard, (PT06A-10-6S (SR), mate not included)	
Electrical (430X, 431X)	1/2" NPT(M) thread with 72" leads	
Enclosed Materials	316 stainless steel	
Mounting Torque	500 inch pounds, maximum	
Identification	Etched stainless steel nameplate welded to body.	

ORDERING GUIDE

Use the following codes to identify desired item.

MODEL	RANGE	OPTIONS
•	—	•/•/•

Example: 431-RV-CF/GN

MODEL			
430/431	4-20 mA/HART®		
430X/431X	4-20 mA/HART®, FM Explosion Proof		
430P/431P	FM+CSA Explosion Proof		
PRESSURE RANGE			
(PSI)		(BAR)	
RH	500	UV	50
RJ	600	UX	75
RK	750	UY	100
RM	1000	UZ	150
RO	1500	VA	200
RR	2000	VB	300
RS	2500	VC	350
RT	3000	VD	500
RV	5000	VE	700
RX	7500	VF	750
RZ	10000	UA	1000
SB	15000	* UB	1500
* SD	20000	* US	2000
* SF	30000	SZ	Other
* Not available on models 430X, 431X			

OPTIONS

ALTERNATE ELECTRICAL CONNECTIONS

- AA PTIH-10-6P (Standard on 430/431)
- AA 1/2" NPT (M) Thread w/ 72" cable (Standard on 430X/431X, 430P/431P)
- CC Bendix PC02E-12-8P [Mate PC06A-12-8S-(SR) not included]
- CD Cannon WK6-32S [Mate WK6-21C not included]
- CF 1/2" NPT(M) thread with 72" potted leads
- CZ Alternate Connector/Cable/Other

ALTERNATE PRESSURE PORTS

- FB M18 X 1.5 Metric Thread
- FG M14 X 1.5 Metric Thread
- FZ * Non-standard pressure port (430/431)

GENERAL

- GB Alternate electronic output - specify zero & span output values
- GP Hastelloy C-276 diaphragm & thread (Reduced Accuracy above 500°F for ranges <3000psi)
- QS Diamond coating
- GQ Boron-hardened diaphragm
- GV Silicone oil fill (increases thermal shift), consult factory
- GX Mineral oil fill (increases thermal shift), consult factory
- QJ * Nak fill 430 & 431 only
- GW * Nak fill with Inconel diaphragm(Consult factory for important safety information)
- JA 100 ohm 3 wire RTD
- JW Titanium Nitride-coated diaphragm and threads
- QF Second 4-20 mA output for temperature (no HART®)
- QG Temperature compensated to 660°F (350°C)
- NE Second 4-20 mA output for temperature (with HART®)
- QB Custom Nameplate

RIGID STEM

- GN 12.5" HJ 1 3/16"
- GO 9" HT 24
- HD 3" MU Non-standard

ARMoured CAPILLARY TUBE

- GT 30" HY 12"
- HS 9" MT Non-Standard
Armoured Cap Tube