

SMART RANGEABLE MELT PRESSURE TRANSMITTER

Models 430, 431
430X, 431X

FEATURES:

- Rugged, all-welded stainless steel construction
- Hart communications
- Interchangeable with existing systems
- Explosion-Proof ratings pending
- Many options available, Hastelloy C-276 or Boron - Hardening
- FM Approval pending

PRESSURE RANGES:

- From 0-500 through 0- 30,000 psi
(see ordering guide)

ACCURACY:

- (Non-Linearity, Hysteresis, Non-repeatability)
- $\pm 0.15\%$ FSO, RSS (0-5000 psi & higher)
 - $\pm 0.2\%$ FSO, RSS (0-3000 psi & lower)



MODEL	OUTPUT @ 70°C	Excitation
430/431	4-20 mA \pm 0.1%	11-40 Vdc
430X/431X	4-20 mA \pm 0.1%	11-40 Vdc
FM Approval pending Explosion Proof Class I, II, III Division I, II, Groups A, B, C, D, E, F & G		

WIRING CODE

PTIH-10-6P		Pigtail	
A/1	+ Excit./Signal	Red	+ Excit./Signal
B/2	- Excit./Signal	Black	- Excit./Signal
C/3	NC	Green	Case Ground <small>Explosion-Proof Units Only</small>
D/4	- Excit./Signal	Shield	Case Ground
E/5	NC		
F/6	NC		

PLASTIG MELT PRESSURE

SPECIFICATIONS

Full Scale Pressure Ranges - See ordering guide	
Accuracy	
Static Error Band	0.2% FSO (RSS) 500 through 5000 psi
(Non-linearity, Hysteresis, Non-repeatability)	0.15% FSO (RSS) 5000 through 30000 psi
Material in Contact with Pressure Media	15-5 PH stainless steel and hard chrome plated diaphragm surface
Proof Pressure	2 times full scale pressure range or 35,000 psi, whichever is less
Temperature Limits	
Process	750°F (400°C)
Electronics	176°F (80°C)
Temperature Effects from Electronics	Less than ± 0.15% FSO/100°F
Electricals	
Load Impedence	250 ohms minimum (for Hart communication) @ 17 V, 1200 ohms maximum @ 36 V
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	PTIH-10-6P, standard PT06A-106S, standard mate (not included) See options
Enclosed Materials	316 stainless steel
Mounting Torque	500 inch pounds, maximum
Identification	Etched stainless steel nameplate welded to body

ORDERING GUIDE

Specify model and pressure range, and indicate modifications or accessories required.

MODEL	RANGE	OPTIONS
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Example: 431-RV-CF/GJ

MODEL

430/431/430X/431X 4-20 mA

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
SB	15000	UH	1400
SD	20000	UB	1500
SF	30000	US	2000
SZ	Other		

OPTIONS

AA None (standard connector PTIH-10-6P)

ALTERNATE CONNECTOR OR CABLE

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 36" potted leads
 CZ Alternate Connector/Cable/Other

ALTERNATE PRESSURE PORT

FB M18 X 1.5 Metric Thread
 FG M14 X 1.5 Metric Thread
 FZ Non-Standard Pressure Port

GENERAL

GN 12.5" Rigid Stem
 GO 9" Rigid Stem
 GP Hastelloy C-276 Diaphragm and Thread
 GQ Boron-Hardened diaphragm
 GT 30" Armored Capillary Tube
 GV Silicone Oil Fill (Increases Thermal Shift) Consult Factory
 GX Mineral Oil Fill (Increases Thermal Shift) Consult Factory
 GZ Customer Special
 HD 3" Rigid Stem
 HJ 1 3/16" Rigid Stem
 HS 9" Armored Capillary Tube
 HT 24" Rigid Stem
 HY 12" Armored Capillary Tube
 JW Titanium Nitride-Coated Diaphragm & Threads
 JA 100 ohm RTD, 3-wire output
 MT Non-standard Armored Capillary Tube (50" max)
 QF Temperature Output over 4-20 mA signal available
 QG Temperature Compensation to 400°C available



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