

## 

# SANITARY FLUSH DIAPHRAGM PRESSURE TRANSDUCER/TRANSMITTER

Models 181, 281, 381

## **FEATURES:**

- All welded, stainless steel rated NEMA 4X
- No fluid fill
- · Compatible with all systems

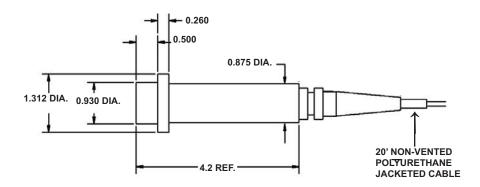
## **PRESSURE RANGES:**

• From 0-100 psisg to 0-20,000 psisg (See ordering guide)

## **APPLICATIONS:**

- Homogenizer Pressure
- Slurries
- Viscous Materials





Some options will affect dimensions. Consult factory if important.

## **WIRING CODE**

	181	281	381
A/1 RED	+ EXC.	+ EXC.	+ EXC./SIGNAL
B/2 GREEN	+ SIGNAL	+ SIGNAL	NC
C/3 WHITE	- SIGNAL	NC	NC
D/4 BLACK	- EXC.	- EXC./SIGNAL	- EXC./SIGNAL
E/5 BLUE	NC OPTION GH	NC OPTION GH	NC OPTION GH
F/6 BROWN	NC OPTION GH	NC OPTION GH	NC OPTION GH
SHIELD	OPEN	OPEN	OPEN

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.

性 The authorized distributor in the Greater China Region Pressure, Level & Temperature Transmitters & Transducers

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

Accuracy	•	n-linearity, hysteresis, RSS nor	n-repeatability)
	±0.5% FSO RSS		
Wetted Parts *	Inconel X750		
Temperature Limits			
Compensated	0° F to +180° F		
Operating	-20° F to +200° F		
Temperature Compensation			
Zero	Less than ±2.0% FSO/100° F		
Span	Less than ±2.0% FSO/100° F		
Electricals	(Model 181)	(Model 281)	(Model 381)
Excitation Voltage	3.5 - 15 Vdc	9 - 40 Vdc	9 - 36 Vdc
Output at 70° F	3 mV/V ± 2% FSO	0 ± 5 Vdc ± 2% FSO	4 - 20 mA ± 2% FSO
Input Impedance	5000 ohm, nominal		
Load Impedance	50,000 ohm minimum,for less		
Zoda III.podaiioo	than 0.1% FSO attenuation		
Imput Current	than 6.1761 GG attoridation	10mA. nominal	
Output Current		2.0 mA maximum for less than	0.1%
Output Guirent		FSO attenuation	1 0.170
Load Impedance		1 00 attoridation	1350 ohms maximum at 36 Vdc
Load Impedance			& 750 ohms max. at 24 Vdc
Zero Balance	0.0 mV/V ±5% FSO at 70°F	0.0 Vdc ±5% FSO at 70°F	4.0 mA ±5% FSO at 70°F
Zelo Balarice	at 10 Vdc	at 24 Vdc	at 24 Vdc
Range Cal. Signal	Resistance value provided on calibration card for 100% FSO.	NC. See option GH	NC. See option GH
Insulation Resistance			
(Greater than 10 megaohms	at 50 vdc and 70°F)		
Resolution	Infinite (practical minimum of 0.0	02% on 181, 281 and 0.06% on 3	81)
Mechanicals Proof Pressure	2 times full soals processes as 22	500 pai whichover is less	
Burst Pressure	2 times full scale pressure or 22,500 psi, whichever is less		
	5 times full scale pressure or 23,000 psi, whichever is less		
Weight	6 oz. nominal Infinite when operated at less than maximum pressure range		
Fatigue Life	infinite when operated at less th	an maximum pressure range	
Connections			
Pressure	Flush diaphragm with gasket (included)		
Electrical Cable	20' Non-vented polyurethane jacketed, 6 conductor		
Enclosure	All-welded type 316 stainless sto	eel. Rated NEMA-4X. Approved 3	BA .
Identification	Etched stainless steel nameplat	e welded to body	
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<sup>\*</sup> See modifications on ordering guide.

### ORDERING GUIDE:

Use the following codes to identify desired item.

MODEL	RANGE	OPTIONS
• -	•	<b>– •/•/•</b>

Example: 381-RV-CA

**MODEL** 

3 mV/V 181 281 0-5 Vdc 381 4-20 mA

#### PRESSURE RANGE

**PSIG** 100 PΖ RR 2,000 RB 150 RT 3,000 RD 200 RV 5,000 RF 300 RX7,500 RH 500 10,000 RZ RK 750 15,000 **SD** 20,000 **RM** 1,000 **RO** 1,500 SZ Other

## **OPTIONS**

AΑ None (standard connector)

## ALTERNATE CONNECTOR OR CABLE

Bendix PTIH-10-6P (Mate: PT06E-10-6S[SR] not in CA

CZ Alternate Connector/Cable/Other

#### GENERAL

GENER	AL
GA	Standardized Output to ±0.5% FSO
GB	Alternate full scale output (FSO)
GE	Improved Temperature Compensation to ±0.5%
	FSO/100°F for Zero & Span Respectively
GF	Expanded process temperature range, -65 to 250°F
	(±2% FSO/100°F)
GH	Internal Calibration Resistor, set to 100% ±0.5% FSO
GS	0 -10 Vdc FSO, Model 281. Requires 16 - 40 Vdc
	excitation.
JH	Remote cable-mounted Zero and Span Controls. 3' cable
	on open side. Cable on closed side as required. (Model
	381 only)
GZ	Customer special