

### SANITARY TRI-CLAMP PRESSURE TRANSMITTER





Model 280/283 & 380/383 Sanitary Tri-Clamp Pressure Transmitter

## MODEL 280/380 & 283/383

### FEATURES:

- Standard tri-clamp fitting sizes from 3/4" to 3"
- Complies with 3A standard 74-06
- Flush process connection eliminates plugging
- All 316L stainless steel or Inconel wetted parts
- Pressure ranges from 0 to 30" WC thru 0 to 1,000 PSI (150 mBAR to 59 BAR)

#### **APPLICATIONS:**

- Food and beverage manufacturing
- Dairy and beverage processing
- Pharmaceutical
- Sanitary

### **PRODUCT OVERVIEW:**

Models 280/380 & 283/383 from GP:50 are a family of food and beverage grade tri-clamp process connection pressure transmitters. Their rugged design also meets 3A sanitary standards for dairy applications. Tri-clamp fitting sizes as small as 3/4" are available to provide reduced surface area exposure. The Model 383 is also available with optional high-temperature compensation to +400 °F (+204 °C). Standard models feature all 316L stainless steel construction. Optional Inconel or Hastelloy wetted parts may be substituted for improved corrosion resistance. An optional vented quick disconnect cable provides a barometric reference on lower ranges while providing a NEMA 4X rating.

### FIELD OPTIONS:

- Vented quick disconnect cable
- Standard tri-clamp fitting sizes from 3/4" to 3"
- High-temperature compensation to +400 °F (+204 °C)
- Inconel and Hastelloy wetted parts
- FM, CSA Explosion Proof option available



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## 1.800.561.8187

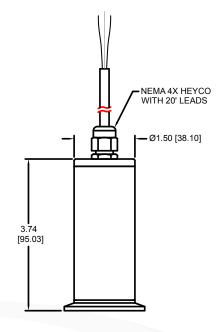


### GP:50 MODEL 280/283 & 380/383

#### **DIMENSIONAL DRAWING**

All dimensions are in inches (mm)

STANDARD WIRING		
WIRE	MODEL 280/283	MODEL 380/383
1/RED	+EXC	+EXC/SIG
2/GRN	+SIG	N/C
3/WHT	N/C	N/C
4/BLK	-EXC/SIG	-EXC/SIG
5/BLU	N/C	N/C
6/BRN	N/C	N/C
SHIELD	OPEN	OPEN



### **REFERENCE SPECIFICATIONS**

ELECTRICAL	STATIC ACCURACY (BFSL) (HYSTERESIS, NON-LINEARITY & REPEATABILITY @ +70 °F)
• Supply Voltage:	• ±0.5% FSO standard, ±0.2% FSO, ±0.1% FSO optional
(Models 280/283) 10.5 to 42 Vdc	• Zero Balance and FSO: ±2.0% FSO at +70 °F
(Models 380/383) 13 to 37 Vdc	MECHANICAL
• Output Signal (@ +70 °F):	Process Connection: Tri-Clamp 1/2" thru 3"
(Models 280/283) 0 to 5 Vdc ±2% FSO	Proof Pressure: 3X FSO
(Models 380/383) 4-20 mA ±2% FSO	• Burst Pressure: 6X FSO
Input Current:	Approximate weight: 14 oz. nominal,
(Models 280/283) 6.2 mA nominal	dependent on pressure fitting
Output Current:	PRESSURE RANGES
(Models 280/283) 2.0 mA max. for <0.1% FSO attenuation	From 0 to 30" WC thru 0 to 1000 PSI
Load Resistance:	• 2", 2-1/2" and 3" tri-clamp fitting (≥2 to 300 PSI)
(Models 380/383) 1200Ω max. at 37 Vdc, 550Ω max. at 24 Vdc	<ul> <li>1", 1-1/2" tri-clamp fitting (≥2 to 1,000 PSI)</li> </ul>
Circuit Protection: RFI & EMI	<ul> <li>1/2" and <sup>3</sup>⁄<sub>4</sub>" tri-clamp fitting (≥50 to 1000 PSI)</li> </ul>
• Connection: 20 ft 6-conductor vented Hytrel jacketed cable	THERMAL SPECIFICATIONS
MATERIALS OF CONSTRUCTION	Compensated:
Wetted Parts:	(Model 80) 0 °F to +180 °F (-17 °C to +82 °C)
316 stainless steel, NEMA-4X (3A 74-03 compliant) rated	(Model 83) 0 °F to +400 °F (-17 °C to +204 °C)
Inconel and Hastelloy optional	Operating Process:
Housing: 316 stainless steel	(Model 80) -20 °F to 200 °F (-29 °C to +93 °C)
	(Model 83) -20 °F to +400 °F (-29 °C to +204 °C)
	<ul> <li>Effect on Zero/Span: &lt;±2% FSO/100 °F</li> </ul>

Standard configurations shown. Please consult factory for other options.

All specifications are for reference purposes only. In the interests of continuous product improvement, all specifications are subject to change without notice. Please contact



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