



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

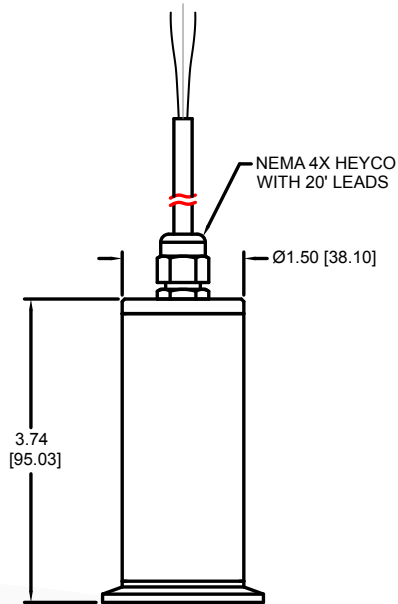
GP:50 MODEL 280/283 & 380/383

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)
<ul style="list-style-type: none"> • Supply Voltage: (Models 280/283) 10.5 to 42 Vdc (Models 380/383) 13 to 37 Vdc 	<ul style="list-style-type: none"> • ±0.5% FSO standard, ±0.2% FSO, ±0.1% FSO optional • Zero Balance and FSO: ±2.0% FSO at +70 °F
<ul style="list-style-type: none"> • Output Signal (@ +70 °F): (Models 280/283) 0 to 5 Vdc ±2% FSO (Models 380/383) 4-20 mA ±2% FSO • Input Current: (Models 280/283) 6.2 mA nominal • Output Current: (Models 280/283) 2.0 mA max. for <0.1% FSO attenuation • Load Resistance: (Models 380/383) 1200Ω max. at 37 Vdc, 550Ω max. at 24 Vdc • Circuit Protection: RFI & EMI • Connection: 20 ft 6-conductor vented Hytrel jacketed cable 	MECHANICAL <ul style="list-style-type: none"> • Process Connection: Tri-Clamp 1/2" thru 3" • Proof Pressure: 3X FSO • Burst Pressure: 6X FSO • Approximate weight: 14 oz. nominal, dependent on pressure fitting
MATERIALS OF CONSTRUCTION	PRESSURE RANGES <ul style="list-style-type: none"> • From 0 to 30" WC thru 0 to 1000 PSI • 2", 2-1/2" and 3" tri-clamp fitting (≥2 to 300 PSI) • 1", 1-1/2" tri-clamp fitting (≥2 to 1,000 PSI) • 1/2" and 3/4" tri-clamp fitting (≥50 to 1000 PSI)
<ul style="list-style-type: none"> • Wetted Parts: 316 stainless steel, NEMA-4X (3A 74-03 compliant) rated Inconel and Hastelloy optional • Housing: 316 stainless steel 	THERMAL SPECIFICATIONS <ul style="list-style-type: none"> • Compensated: (Model 80) 0 °F to +180 °F (-17 °C to +82 °C) (Model 83) 0 °F to +400 °F (-17 °C to +204 °C) • Operating Process: (Model 80) -20 °F to 200 °F (-29 °C to +93 °C) (Model 83) -20 °F to +400 °F (-29 °C to +204 °C) • Effect on Zero/Span: <±2% FSO/100 °F

**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

