



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

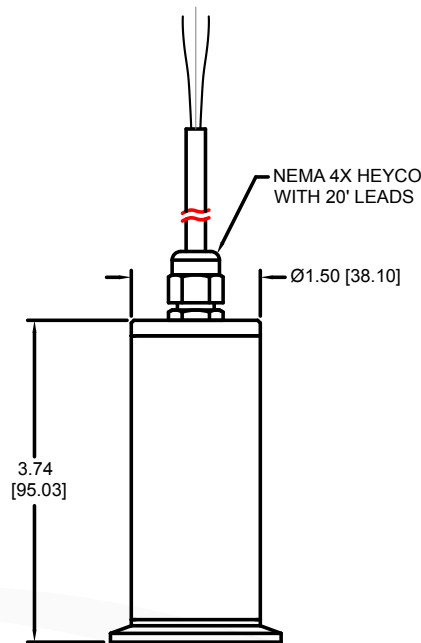
GP:50 MODEL 280/283 & 380/383

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

- **Supply Voltage:**
(Models 280/283) 10.5 to 42 Vdc
(Models 380/383) 13 to 37 Vdc
- **Output Signal (@ +70 °F):**
(Models 280/283) 0 to 5 Vdc $\pm 2\%$ FSO
(Models 380/383) 4-20 mA $\pm 2\%$ 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) 1200 Ω max. at 37 Vdc, 550 Ω max. at 24 Vdc
- **Circuit Protection:** RFI & EMI
- **Connection:** 20 ft 6-conductor vented Hytrel jacketed cable

MATERIALS OF CONSTRUCTION

- **Wetted Parts:**
316 stainless steel, NEMA-4X (3A 74-03 compliant) rated Inconel and Hastelloy optional
- **Housing:** 316 stainless steel

STATIC ACCURACY (BFSL) (HYSTERESIS, NON-LINEARITY & REPEATABILITY @ +70 °F)

- $\pm 0.5\%$ FSO standard, $\pm 0.2\%$ FSO, $\pm 0.1\%$ FSO optional
- Zero Balance and FSO: $\pm 2.0\%$ FSO at +70 °F

MECHANICAL

- **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

PRESSURE RANGES

- 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)

THERMAL SPECIFICATIONS

- **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:** $< \pm 2\%$ 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 GP:50 for assistance with your application.

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