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)

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 ±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

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)

±0.5% FSO standard, ±0.2% FSO, ±0.1% FSO optional
Zero Balance and FSO: ±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 ¾” 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: <±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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Tel: +1.716.773.9300  Fax: +1.716.773.5019  Email: sales@gp50.com  Web: www.gp50.com