



SANITARY TRI-CLAMP PRESSURE TRANSMITTER

Models 280, 380 / 283, 383



74-03
Cert no. 668

FEATURES:

- Complies with 3A standard 74-03
- All Welded Stainless Steel
- RFI Protection
- Model 383 Temperature Compensated to 400° F

PRESSURE RANGES:

- From 0-30" wc to 0-1000 psi

ACCURACY:

- From 0.1% FSO to 0.5% FSO

WIRING:

| | 280/283 | 380/383 |
|-----------|--------------|--------------|
| A/1 RED | +EXC. | +EXC./SIGNAL |
| B/2 GREEN | +SIGNAL | NC |
| C/3 WHITE | NC | NC |
| D/4 BLACK | -EXC./SIGNAL | -EXC./SIGNAL |
| E/5 BLUE | NC | NC |
| F/6 BROWN | NC | NC |
| SHIELD | CASE GROUND | CASE GROUND |

Accuracy:

Static Error (Includes Hysteresis, Non-linearity, Non-Repeatability)

- **Series B:** ±0.5% FSO (RSS)
- **Series C:** ±0.2% FSO (RSS)
- **Series D:** ±0.1% FSO (RSS)

Wetted Parts:

- Type 316 SST

RFI:

- Included

Electricals:

- Excitation Voltage:
(Models 280/283) 10.5-42 Vdc
(Models 380/383) 13-37 Vdc
- Output at 70° F:
(Models 280/283) 0-5 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 less than 0.1% FSO attenuation.
- Load Impedance:
(Models 380/383) 1200 ohms max. at 37 Vdc & 550 ohms max. at 24 Vdc.
- Zero Balance:
(Models 280/283) 0.0 Vdc ±5% FSO at 70° F
(Model 380/383) 4.0 mA ±5% FSO at 70° F
- Resolution: Infinite 0.2% practical

Temperature Compensation:

- Effect on Zero / Span: Less than ±2.0% FSO/100°F for each

Temperature Limits:

Ambient Temperature

- Compensated: (Models 80/83) 0° F to 180° F
- Operating: (Models 80/83) -20° F to 200° F

Process Temperature

- Compensated:
(Model 80) 0° F to 180° F
(Model 83) 0° F to 400° F
- Operating:
(Model 80) -20° F to 200° F
(Model 83) -20° F to 400° F

Mechanicals:

- Proof Pressure: 3 X full scale pressure
- Burst Pressure: 6 X full scale pressure
- Enclosure: All-welded type 316 SST. Rated NEMA-4x. (3A 74-03 compliant)
- Weight: 14 oz. nominal, dependent on pressure fitting.
- Identification: Etched into body.

Connections:

- Pressure: Tri-Clamp 1/2" through 3"
- Electrical: 20' 6 Conductor Cable



SANITARY TRI-CLAMP PRESSURE TRANSMITTER

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| | |
|--------------|---------|
| MODEL | |
| 280 - 283 | 0-5 Vdc |
| 380 - 383 | 4-20 mA |
| * 280X | 0-5 Vdc |
| * 380X | 4-20 mA |

* Explosion Proof not 3A compliant

SERIES (ACCURACY)

| | |
|---|----------|
| B | 0.5% FSO |
| C | 0.2% FSO |
| D | 0.1% FSO |

PRESSURE RANGE

PSI

| | | |
|--------|--------|---------------|
| PC 1 | PR 20 | RD 200 |
| PE 2 | PO 25 | RE 250 |
| PG 3 | PT 30 | RF 300 |
| PJ 5 | PV 50 | RH 500 |
| PL 7.5 | PX 75 | RK 750 |
| PN 10 | PZ 100 | RM 1,000 |
| PP 15 | RB 150 | SZ Non-Stand. |

IN WC

| | | |
|-------|--------|---------------|
| XD 30 | XK 100 | XU 750 |
| XF 50 | XM 150 | XW 1,000 |
| XH 75 | XO 200 | XY 1,500 |
| | XQ 300 | YA 2,000 |
| | XS 500 | SZ Non-Stand. |

OPTIONS

ELECTRICAL CONNECTOR

| | |
|------|---|
| AA | NEMA 4 with 20' vented cable |
| * CF | 1/2" NPT (M) Thread with 20" (STD on 280X/380X) |
| CL | 1/2" NPT (M) with 20" vented cable |
| CZ | Alternate connector/cable/other |
| DD | NEMA-6X w/20' non-vented cable |
| DE | NEMA-6X w/20' vented cable |

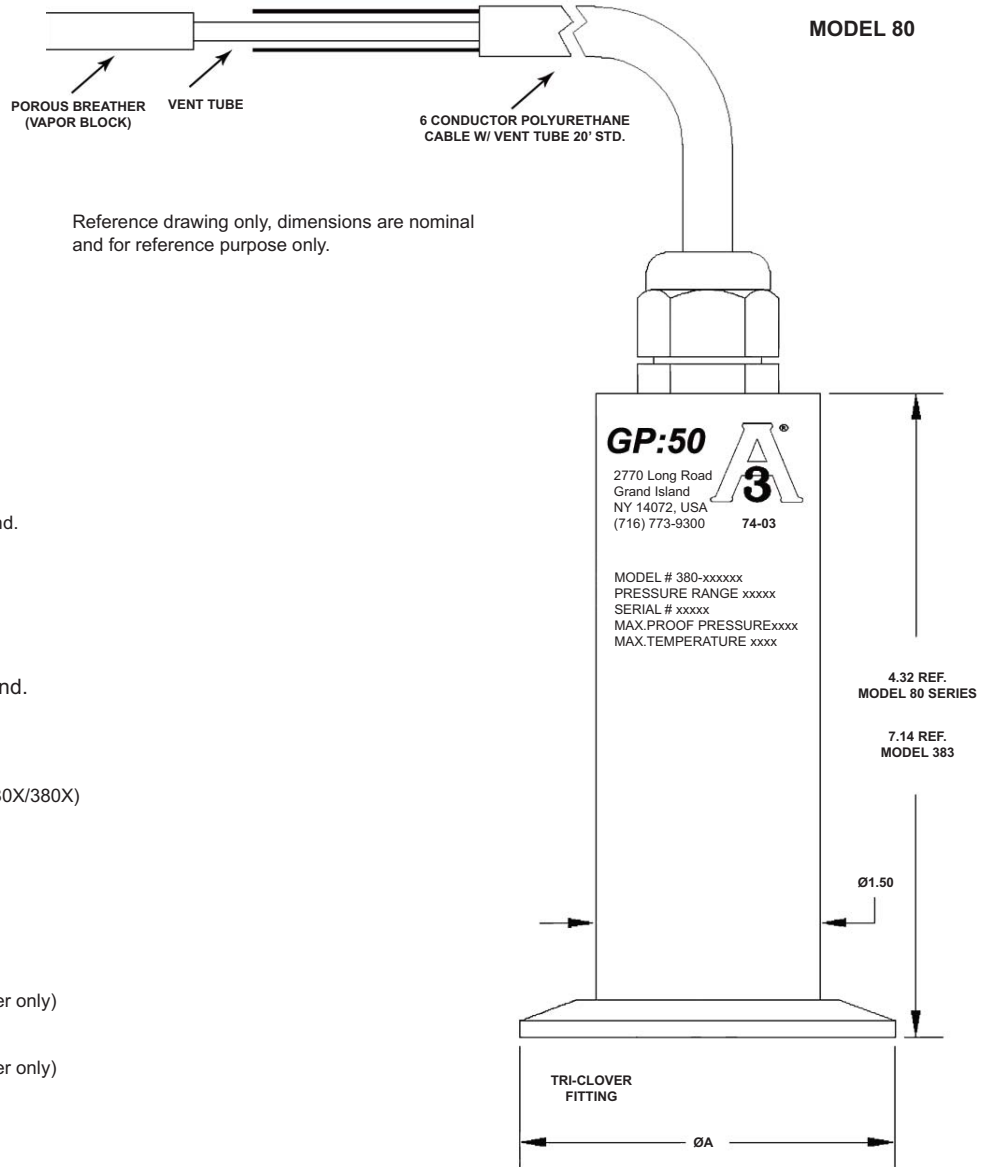
* CF Mandatory on Explosion Proof

PRESSURE PORT

| | |
|----|--|
| AA | 2" Tri-Clamp (is standard) |
| FR | 1/2" Tri-Clamp (ranges 0-75 psi and higher only) |
| FS | 1" Tri-Clamp |
| FU | 2 1/2" Tri-Clamp |
| LV | 3/4" Tri-Clamp (ranges 0-75 psi and higher only) |
| LW | 1 1/2" Tri-Clamp |
| FV | 3" Tri-Clamp |

GENERAL

| | |
|----|---|
| GA | Standardized output to $\pm 0.5\%$ FSO |
| GB | Alternate full scale outputs |
| GE | Improved temperature compensation to $\pm 0.5\%$ FSO/100°F for zero & span respectively. |
| GF | Expanded process temperature range, -65 to 250° F ($\pm 2\%$ FSO/100° F) |
| GJ | Zero & span controls. Can-mounted |
| GP | Hastelloy diaphragm & Tri-Clamp fitting (wetted port) |
| GS | 0-10 Vdc FSO, Models 280/283 only |
| GZ | Customer special |
| HE | Improved zero balance $\pm 0.5\%$ FSO |
| HX | Hastelloy diaphragm |
| JH | Remote cable-mounted Zero & Span controls. 3' cable on open side. Cable on closed side as required. 380/383 only. |
| JV | Voltage surge protection. 380/383 only |
| MD | Explosion-proof/explosion-resistant zero and span controls. |
| MH | 3:1 ranging for upper ranges $\leq 0-15$ psi and 0-20" wc through 0-100" wc only. Pressure code indicates upper pressure range. |
| MX | EMI protection. Models 280/283, 380/383 only. |



Reference drawing only, dimensions are nominal and for reference purpose only.

| PRESSURE/ SIZES | TRI-CLOVER FITTING | A |
|------------------------|--------------------|------------|
| 0-75 PSI to 0-1000 PSI | 1/2" & 3/4" PIPE | .984" DIA |
| 0-20" WC to 0-1000 PSI | 1-1/2" PIPE | 1.984" DIA |
| 0-20" WC to 0-300 PSI | 2" PIPE | 2.516" DIA |
| 0-20" WC to 0-300 PSI | 2-1/2" PIPE | 3.047" DIA |
| 0-20" WC to 0-300 PSI | 3" PIPE | 3.579" DIA |

NOTE:

Specifications reflect standard product, improved performance / mechanical options available.

Modifications may alter specs, consult factory for more information.