



Pressure, Level & Temperature Transmitters & Transducers

2770 Long Road, Grand Island, NY 14072 USA

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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 0-20" 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:** $\pm 0.5\%$ FSO (RSS)
- **Series C:** $\pm 0.2\%$ FSO (RSS)
- **Series D:** $\pm 0.1\%$ 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 $\pm 2\%$ 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 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 $\pm 5\%$ FSO at 70° F
(Model 380/383) 4.0 mA $\pm 5\%$ FSO at 70° F
- Resolution: Infinite 0.2% practical

Temperature Compensation:

- Effect on Zero / Span: Less than $\pm 2.0\%$ 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

A5SL-80.00 Rev B



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Models 280, 380 / 283, 383

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

XB 20	XK 100	XU 750	
XC 25	XM 150	XW 1,000	
XD 30	XO 200	XY 1,500	
XF 50	XQ 300	YA 2,000	
XH 75	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

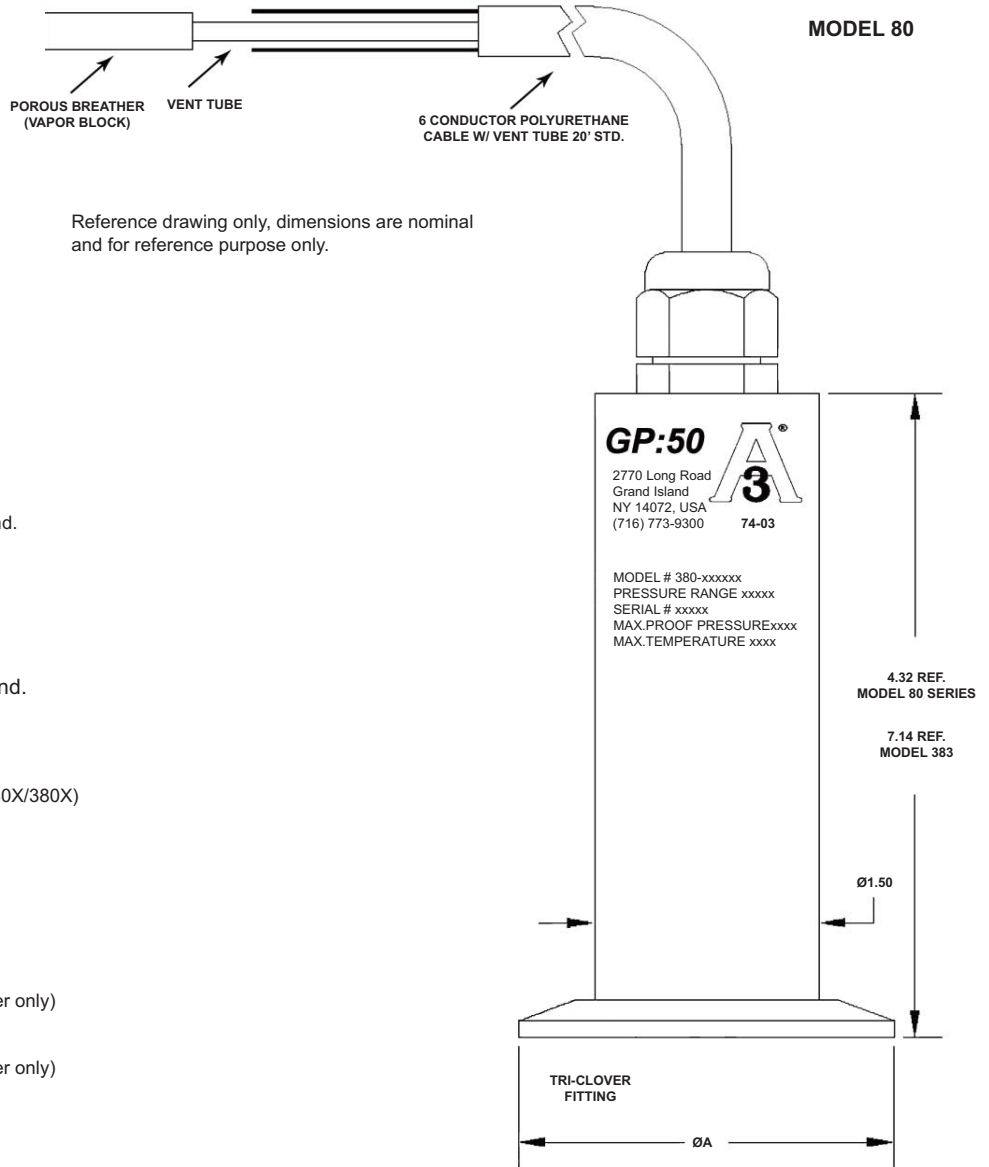
* CF Mandatory on Explosion Proof

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.