



Pressure, Level & Temperature Transmitters & Transducers

U.K. Distributor; Interface Force Measurements

Tel. 01344 776666 • Fax. 01344 774765

e-mail info@interface.uk.com •

www.interface.uk.com

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: $\pm 0.5\%$ 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 C

GP:50 reserves the right to make product improvements and amendments to the product specifications stated throughout this brochure without prior notification. Please contact the factory on all critical dimensions and specifications for verification.



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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

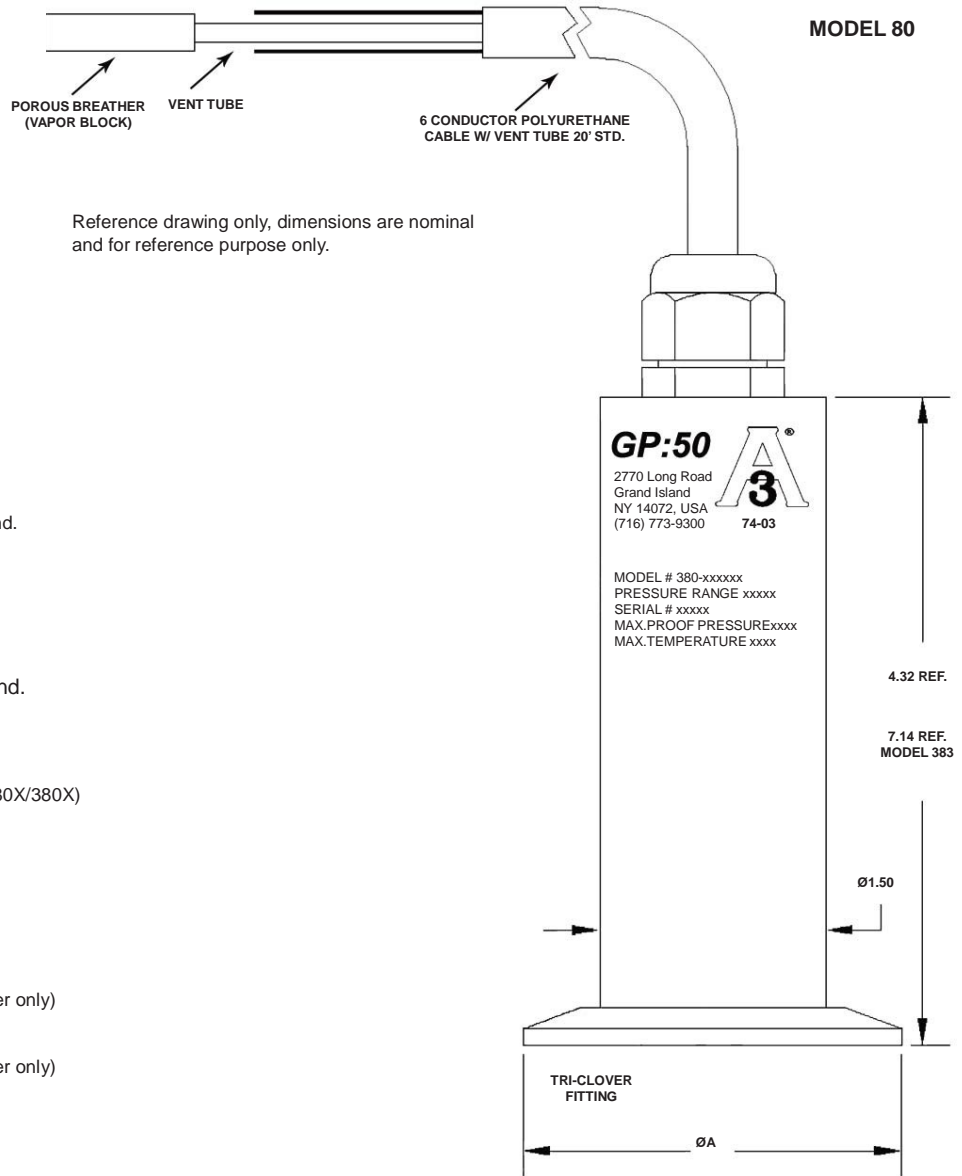
- AA NEMA 4 with 20' vented cable
- * AF 1/2" NPT (M) Thread with 20" (STD on 280X/380X)
- CL 1/2" NPT (M) with 20" vented cable
- CZ Alternate connector/cable/other
- DD NEMA-6X w/20' non-vented cable
- DE NEMA-6X w/20' vented cable
- * CF Mandatory on Explosion Proof

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.

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