

Series
681

Sanitary Pressure Transmitter

Meets 3A Sanitary Standards, No Liquid Fill Diaphragm, Tri-Clover Fitting



The Series 681 Sanitary Pressure Transmitter is designed to meet 3A standards for applications in food, dairy, beverage and pharmaceutical processing, liquid level control, and sanitary pipelines. The unit is fully sealed to withstand high pressure washdown in Clean-in-Place (CIP) and Sterilize-in-Place (SIP) installations. The Series 681 is designed with a unique, no liquid fill diaphragm and a Tri-Clover sanitary pressure fitting for easy installation with negligible clamping effect. A conduit fitting, shielded cable with vent tube and sealed screws for zero and span adjustment combine to make the Series 681 completely watertight.

POPULAR MODELS

Model Number	Range	Overpressure	Connection
681-02	0 to 1 psi	50 psi	2" Tri-Clover
681-12	0 to 2 psi	100 psi	2" Tri-Clover
681-22	0 to 5 psi	150 psi	2" Tri-Clover
681-32	0 to 10 psi	150 psi	2" Tri-Clover
681-42	0 to 15 psi	150 psi	2" Tri-Clover
681-52	0 to 30 psi	150 psi	2" Tri-Clover
681-62	0 to 60 psi	180 psi	2" Tri-Clover
681-72	0 to 100 psi	200 psi	2" Tri-Clover
681-101	0 to 300 psi	1000 psi	1 1/2" Tri-Clover

SPECIFICATIONS

Service: Compatible liquids and gases.

Wetted Parts: 316L Stainless Steel.

Accuracy: $\pm 0.20\%$ FS (includes non-linearity, hysteresis and non-repeatability).

Temperature Limits: -40 to 260 °F (-40 to 125°C) 10 to 90% RH, non-condensing.

Pressure Limits: See table.

Compensated Temperature Range:

20 to 180°F (-7 to 80°C).

Thermal Effect: Zero and span shift: $\pm 2.0\%$ FS/100°F (% FS/50°C).

Power Requirements: 9-30 VDC.

Output Signal : 4-20 mA, 2-wire.

Zero and Span Adjustment:

± 0.5 mA, non-interactive.

Response Time: ≤ 10 ms.

Loop Resistance: 800 ohms.

Electrical Connections: 1/2" conduit fitting and strain relief with 15 ft (4.5 m) cable.

Process Connection: 2" or 1-1/2" Tri-Clover fitting male NPT.

Clamping Effect: Zero and span shift: $\pm 0.15\%$ FS for ranges up to 30 psi; $\pm 0.25\%$ FS for ranges >30 psi.

Enclosure Rating: 304 Stainless Steel.

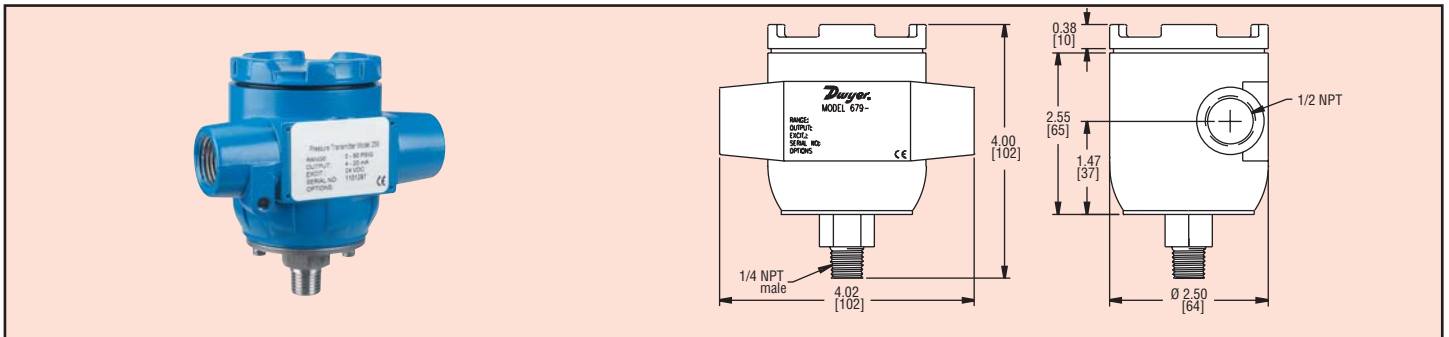
Weight: 8 oz (227 g).

Agency Approvals: 3A, CE.

Series
679

Weatherproof Pressure Transmitter

$\pm 0.25\%$ FS Accuracy, Compatible with Corrosive Materials, 4-20 mA Output



The Series 679 Pressure Transmitter is compatible with a wide range of gases and liquids, and is specially designed for weatherproof service (NEMA 4/IP56). The Model 679 can measure pressures with an accuracy of $\pm 0.25\%$. This model provides a 4-20 mA output and is field adjustable.

STOCKED MODELS in bold

Model Number	Range	Overpressure
679-0	0 to 25 psi	100 psi
679-1	0 to 50 psi	150 psi
679-2	0 to 100 psi	300 psi
679-3	0 to 250 psi	500 psi
679-4	0 to 500 psi	1000 psi
679-5	0 to 1000 psi	2000 psi
679-6	0 to 3000 psi	4500 psi
679-7	0 to 5000 psi	7500 psi
679-8	0 to 10,000 psi	12,000 psi

SPECIFICATIONS

Service: Corrosive liquids and gases.

Accuracy: $\pm 0.25\%$ FS (includes non-linearity, hysteresis and non-repeatability).

Pressure Limits: See table.

Output: 4-20 mA, 2-wire.

Supply Voltage: 9-30 VDC.

Loop Resistance: 800 ohms.

Zero and Span Adjustment: $\pm 15\%$, non-interactive.

Stability: Less than .5% FS/year.

Temperature Limits: -40 to 260°F (-40 to 125°C) 10 to 90% RH, non-condensing.

Compensated Temperature Range: -4 to 176°F (-20 to 80°C).

Pressure Connection: 1/4" male NPT.

Wetted Parts: Corrosive resistant 17-4 PH Stainless Steel.

Enclosure: Aluminum.

Electrical Connections: Two 1/2" conduit ports.

Weight: 13.4 oz (380g).