



Series
681

Sanitary Pressure Transmitter

No Liquid Fill Diaphragm, Sanitary Clamp Fitting



The **Series 681 Sanitary Pressure Transmitter** is designed to meet sanitary 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 sanitary clamp 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.

SPECIFICATIONS

Service: Compatible liquids and gases.

Wetted Parts: 316L SS.

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.

Power Requirements: 9 to 30 VDC.

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

Zero and Span Adjustment: ± 0.5 mA, non-interactive.

Response Time: ≤ 10 ms.

Loop Resistance: 800 Ω .

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

Process Connection: 2" or 1-1/2" sanitary clamp 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.

Weight: 8 oz (227 g).

Agency Approvals: CE.

Model	Range	Overpressure	Sanitary Clamp Connection
681-02	0 to 1 psi	50 psi	2"
681-12	0 to 2 psi	100 psi	2"
681-42	0 to 15 psi	150 psi	2"
681-52	0 to 30 psi	150 psi	2"
681-62	0 to 60 psi	180 psi	2"