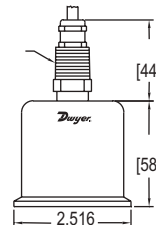


# SANITARY PRESSURE TRANSMITTER

## No Liquid Fill Diaphragm, Sanitary Clamp Fitting

**CALIBRATION SERVICES AVAILABLE**


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 wash-down 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.

### BENEFITS/FEATURES

- Fully sealed to withstand Clean-in-Place and Sterilize-in-Place installations
- supports regulatory conditions for sanitary processes
- Sanitary clamp fitting makes for easy installation

### APPLICATIONS

- Sanitary process applications
- Food and beverage processing
- Water processing
- Dairy processing
- Pharmaceutical processing

| MODEL CHART |             |              |                           |
|-------------|-------------|--------------|---------------------------|
| 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"                        |

### 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  $260^{\circ}\text{F}$  ( $-40$  to  $125^{\circ}\text{C}$ ) 10 to 90% RH, non-condensing.

**Pressure Limits:** See table.

**Compensated Temperature Range:**  $20$  to  $180^{\circ}\text{F}$  ( $-7$  to  $80^{\circ}\text{C}$ ).

**Thermal Effect:** Zero and span shift:  $\pm 0.0\%$  FS/ $100^{\circ}\text{F}$ .

**Power Requirements:** 9-30 VDC.

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

**Zero and Span Adjustment:**  $\pm 0.5$  mA, non-interactive.

**Response Time:**  $\leq 10$  ms.

**Loop Resistance:** 800  $\Omega$ .

**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).

### OPTIONS

| Use order code: | Description                                                      |
|-----------------|------------------------------------------------------------------|
| NISTCAL-PT1     | NIST traceable calibration certificate for pressure transmitters |