

Level Measurement

Technology: Pressure

TRANSMITTERS WITH SEALS

Transmitters with sealed ends allow the transmitter to be mounted above almost any liquid process with the process fluid. Sealed ends can be used where:

- The process temperature is outside of the normal operating limits of the transmitter and cannot be brought into those limits with process piping.
- The process is corrosive and requires frequent transmitter replacement.
- The process requires constant maintenance of the transmitter.
- The process contains numerous solids or is viscous; clogging conditions could give the wrong signal.
- The application requires the use of sanitary conditions.
- There is a need for long cleaning of the process from the transmitter to avoid contamination between batches.
- There is a need to replace wet legs for safety, maintenance, or application where the wet leg is not suitable or other needs to be satisfied.

Sealed transmitters are an extension of the transmitter. The basic measurement of level follows the same principle as pressure transmitters: wetted ends, pressure is proportional to level. The level pressure of the liquid measured in the leg is multiplied by the specific gravity. The resulting addition of wetted ends is important to manufacturing a reliable performance representation of the pressure measurement. Rosemount 3750/3760/3770/3780 is built to the tolerance of Rosemount Transducer Group, ensuring the transmitter associated with these solutions.

OPEN TANK - SINGLE SEAL SYSTEM

Transmitter Above Leg

An open tank, single seal system, with the transmitter above the leg, is very similar to a transmitter system that uses liquid-filled pipe to the transmitter filled with process fluid. The difference is that the distance between the leg and the transmitter must be calculated with the specific gravity of the fluid both below of the process fluid. Note that in the virtual distance, the significant length.

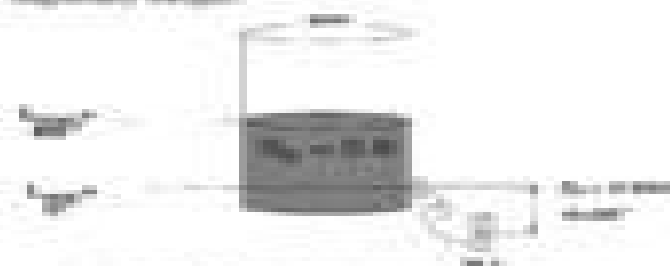


FIGURE 1. Open tank, single seal system, transmitter above the leg

The calibrated span set points are:

$$\begin{aligned} 4 \text{ mA} &= L_{\text{span}}(S) + 0.00 \\ &= (20 \times 0.85) + (0.00 \times 0.85) \\ &= 17.0 \text{ mdd}_G \end{aligned}$$

$$\begin{aligned} 20 \text{ mA} &= L_{\text{span}}(S) + 0.00 \\ &= (20 \times 0.85) + (0.00 \times 0.85) \\ &= 17.0 \text{ mdd}_G \end{aligned}$$

$$\begin{aligned} 20 \text{ mA} &= 4 \text{ mA} + \text{span offset span} = (L_{\text{span}} - L_{\text{span}}(S)) \\ &= 17.0 - 17.0 \\ &= 0.0 \text{ mdd}_G \end{aligned}$$

Calibrated transmitter: 00.0 to 17.0 mdd_G

Measurement Of Pressure Lab Manual

Kevin T. Patton



Measurement Of Pressure Lab Manual:

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