

Boiler Drum Level Transmitter Calibration

KEY POINTS

- Fluctuating water level or changing rate of water inflow and steam outflow can cause measurement errors.
- Thermodynamics of pressure and temperature, geometry of the steam drum, and equation of continuity define transmitter calibration.
- Check the zero elevation and span against transmitter specifications to ensure selected transmitter can be calibrated to required values.



APPLICATION OVERVIEW

Steam Drum Level is both a critical and difficult measurement to make. Control of the water level in the drum must be precise. A water level that is too high can result in water carryover into the steam piping. A level that is too low can expose the generating tubes (down comers), preventing the water in the drum from cooling the furnace tubes, possibly damaging them.

Several factors make this measurement difficult to obtain. The steam drum itself may not be perfectly level, and even at steady state conditions, considerable turbulence in the drum can cause the level to fluctuate. In addition, a changing rate of water inflow and steam outflow adds to the potential for measurement error.

Measurement of boiler steam drum level using a differential pressure transmitter must take into account certain physical properties of the fluid.

- The Steam drum contains a two-phase mixture of water and steam at saturation conditions.
- The densities of water and steam vary with saturation temperature or pressure.
- The density of saturated steam above water must be considered, as well as the density of saturated water in the drum.

This technical note offers a method for calibrating transmitters that takes into account these factors.

PROCESS

Figure 1 on page 2 shows a simplified sketch of the process. Note that level, as we define it, is measured in units of length—in this case, inches. Differential pressure, on the other hand, is measured in inches of water column differential pressure. The two are sometimes confused, but do not refer to the same thing.

A column of water one inch high under one set of operating conditions does not exert the same hydrostatic head pressure as a column of water of the same height under another set of conditions. The objective is to measure differential pressure and “read” it as a unit of length.

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Christian G. Meyer



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