

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 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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Boiler Control Systems Engineering Jerry F. Gilman, 2010-07-01 Boiler Control Systems Engineering is designed for anyone working with boilers including utility managers power plant managers control systems engineers maintenance technicians and operators It primarily focuses on water tube boilers with induced draft ID and forced draft FD fans as well as those with only FD fans The content can also be applied to any fuel fired steam generator Although other books on boiler control exist they do not cover the detailed engineering aspects of control systems and the setup of various control functions This book provides specific examples of boiler control including configuration and tuning valve sizing and transmitter specifications This expanded and updated Second Edition features drum level compensation equations additional piping and instrumentation diagrams PIDs and examples of permissive start up and tripping logic for gas oil and coal fired boilers It also covers different control schemes for furnace draft management NFPA 85 Code 2007 control system requirements are included along with illustrated examples of coal fired boilers and information on the latest ISA 77 standards

Instrumentation Technology, 1974 **InTech**, 1991 **Principles of Naval Engineering** United States. Bureau of Naval Personnel, 1970 Fundamentals of shipboard machinery equipment and engineering plants are presented in this text prepared for engineering officers A general description is included of the development of naval ships ship design and construction stability and buoyancy and damage and casualty control Engineering theories are explained on the background of ship propulsion and steering lubrication systems measuring devices thermodynamics and energy exchanges Conventional steam turbine propulsion plants are presented in such units as machinery arrangement plant layout piping systems propulsion boilers and their fittings and controls steam turbines and heat transfer apparatus in condensate and feed systems General principles of diesel gasoline and gas turbine engines are also provided Moreover nuclear power plants are analyzed in terms of the fission process reactor control and naval nuclear power plant Auxiliary equipment is also described The text is concluded by a survey of newly developed hull forms propulsion and steering devices direct energy conversion systems combined power plants central operations systems and fuel conversion programs Illustrations for explanation purposes are also given *Instrumentation, Controls, and Automation in the Power Industry*, 1991 Grid Connected Integrated Community Energy System University of Minnesota. Physical Plant, 1978 **College Credit Recommendations**, 2002

Instruments and Control Systems, 1967 **Instruments**, 1958 **Power**, 1987 Instruments & Control Systems, 1968 **Proceedings of the American Power Conference**, 1973 *Automatic Control*, 1957 **ISA Transducer Compendium: Electric output, sensory transducers** Instrument Society of America, 1969 *Combustion*, 1956 **Power Engineering**, 1958 **Instruments, Industrial, Scientific**, 1958 Power Plant Engineering, 1958 **Iron and Steel Engineer**, 1958 Contains the proceedings of the Association Blast Furnace and Steel Plant, 1958

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