**DDTOP ZTD Displacer Level Transmitter**

**Reliable Boiler Drum Water Level Measuring Instrument**

**RESULTS**

* A good solution to the problem of boiler drum water level high temperature and so on；
* Better ensure that the device can operate stably.

**APPLICATION**

**Equipment**：Boiler Drum

**Medium**：Water

**Medium Characteristics**：High Temperature

**CUSTOMER**

Peruvian National Oil Company

**CHALLENGE**

The boiler drum water level is one of the important signs of whether the boiler is running normally. Accurate measurement and control of the drum water level within the specified range is a necessary condition to ensure the safe operation of the boiler. The temperature of the drum water level is relatively high, generally above 250 °C, and the steam-water interface is not obvious. The sudden change of boiler load will cause the false water level to be generated.

**SOLUTIONS**

* The displacer level transmitter can automatically compensate the temperature drift of the measurement system to reduce the influence of temperature on the measurement results;
* An insulated rack or a heat sink (sheet) is attached to the meter head to eliminate the adverse effects of the high temperature medium on the electronic components in the meter head;
* The transmission element for measuring buoyancy variation uses Inconel 600 alloy, which is a solid solution strengthened heat-resistant corrosion-resistant alloy with good high temperature corrosion resistance, oxidation resistance, hot and cold processing properties, low temperature mechanical properties, and cold and hot fatigue properties. It has high strength at 650 ° C and is easy to weld.
* Because of the buoyancy principle, it can effectively eliminate the measurement problems of other instruments due to the false water level, so it is stable and reliable.
* Better protection of the entire unit can be operated safely and stably for a long time.

**Dandong Top Electronics Instrument (Group) Co.,Ltd.**

**Reliable Process Instrumentation and Automation Solution Provider**

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