

Condensate Storage



When the condenser hot well level reaches a high point, the drain valve opens, draining excess condensate from the hot well to the condensate storage tank. As condensate is lost in the turbine cycle, the hot well level drops, at which point the water supply valve in the storage tank is opened to provide supplemental water for the Condenser hot wells.

Challenges

Condensate tank level control in the normal operation of the tank can ensure the normal supply of supply water, thus ensuring the normal operation of the entire device, so the selection of the correct instrumentation to indicate and control is particularly important.

Products

- **TRG802X Guided Wave Radar Level Transmitter**

The latest generation of TRG802X series guided wave radar level transmitter is a two-wire 24VDC powered level transmitter, which adopts advanced microprocessor and unique echo processing technology.

TRG802X series guided wave radar level transmitter can be applied to various complex working conditions and applications. Whether it is a light hydrocarbon or water-based solution, it is suitable.

Features

1. Multi-variable 2-wire system and 24VDC loop-powered level transmitter can be used to measure level, interface, volume or flow.
2. The level measurement results are not affected by the change of medium properties.
3. It is no need to calibrate by adjusting the actual level.
4. Select the probe with function of "anti-overflow ", the true level to the process connection seal can be measured directly without special algorithm.
5. 4 buttons and graphical LCD display can easily observe the instrument configuration information and signal waveform diagram
6. Use split structure, the electronic device can be replaced without opening the storage tank.

● UQK-400 Float Level Controller

UQK400 float level controller is composed of float, connecting rod, magnetic sensor and magnetic switch and signal conversion mechanism. The change of the medium level in the container causes the relative displacement of the float, which drives the connecting rod and the iron core to move up and down to change the relative position of the magnetic sensor. Through the magnetic coupling, the micro switch or the reed switch is operated to achieve level control and alarm.

Features

1. The float is made of 304, 316, TA2 material. A heat insulation mechanism is designed between the wetted part and the output part, which can be used for a long time under 450 °C working conditions.
2. The wetted part is completely isolated from the magnetic coupling system. Compared with other mechanical seal types, the product has higher safety and durability.
3. The product has passed SIL2 functional safety certification and explosion-proof certification, and can be used in a variety of working conditions to effectively avoid the occurrence of accidents.
4. The product has bi-stable memory function and it can continue to maintain the alarm signal when the liquid level is ultra-high or ultra-low.

● ZTD Displacer Level (Interface) Transmitter

ZTD displacer level (interface) transmitter is an intelligent level measuring instrument with international leading level independently developed by DDTOP after many years of technical research. The simple buoyancy principle is used to detect the change of level, and then the magnetic signal is converted into a stable 4-20mA current signal and output through the torque tube assembly and the hall sensor. The instrument has a variety of configurations and pressure levels, which are suitable for various applications.

Equipped with DLT9010 level controller, output 4~20mA current signal. At the same time, it has HART communication protocol, which can query, configure, calibrate or test level controller. It can also accept the information of a single measurement loop and transmit the information from site to the control system.

Features

1. SIL2 certification certified by both French Bureau Veritas and Shanghai SITIIAS.
2. Verification is not needed, only configuration is needed.
3. The product provides 4-20 mA with HART, and can be configured, calibrated and diagnosed on site using the 475 Communicator.
4. Comprehensive fault diagnosis, warning and status history.
5. EU PED pressure vessel certification, the applicable pressure can be up to 42Mpa.
6. Maximum process temperature which is applicable in non-vapor condition can be up to 500°C.
7. Flame-proof and Intrinsic safety certified by CSA, ATEX and IEC.
8. Process parameters can be adjusted online.
9. The transmitter can be converted arbitrarily in 8 positions without affecting the on-site use.
10. It is suitable for interface measurement and density measurement.
11. EU EMC directive CE certification.

● **TRG804X Radar Level Transmitter 6.3GHz**

TRG804X non-contact type radar level transmitter has a wider measurement range, and better diagnostic function. The use of advanced signal processing technology can filter out false targets or other noise signals. Pulse string radar level transmitter transmits short pulse string to the liquid surface. Through antenna, it can transmit extremely short pulses with very low energy. By using ultra-high speed timing circuit to measure the time required for the pulse signal to meet liquid surface and reflect echo.

Features

1. 6.3 GHz operating frequencies provide superior performance in applications of turbulence, foam and heavy vapor
2. Maximum process temperature can be up to 250°C
3. Maximum measuring range can reach 30m
4. Quick connection/disassembly of probe shaft sleeve allows the container to remain sealed

● **UTK Displacer Level Controller**

UTK Displacer level controller takes float or displacer as measuring element. The measuring element is connected to the magnetic sensor. The magnetic control switch is sucked through the magnetic induction magnetic coupling to realize the control and alarm of the liquid level. UTK displacer level controller is highly stable, anti-vibration, and

suitable for extreme temperature and pressure.

Features

1. Stable output signal is not affected by surface fluctuation.
2. Process temperature range is from -40° to 300°C .
3. The product uses 304, 316 high-quality materials which make it more durable and reliable.
4. This product is suitable for the working condition of pressure vacuum $\sim 26\text{MPa}$, temperature $-40^{\circ}\text{C} \sim +300^{\circ}\text{C}$.
5. The product has passed SIL2 functional safety certification and explosion-proof certification, and can be used in a variety of working conditions to effectively avoid the occurrence of accidents.
6. The pressed part and the switch contact part are completely isolated by magnetic coupling, which has high reliability and safety.