Level Pressure Flow Temperature Liquid Analysis Registration Systems Components Services Solutions

CM42, CPS11D with CPA450 Holder with pH Adjustment in Boiler Process- Power

pH adjustment of wastewater from boiler process on 6” process line

Power plant

Liquiline M CM42 transmitter with CSP11D Memosens sensor

Water tanks

pH adjustment of wastewater from boiler process on 6” process line in power utility.

Company profile

Utility located in northwest Indiana

Previous instrument

The customer had previously been using a competitor‘s glass pH electrodes. The instrument did not have a fast enough response time and had too much drift.

Solution

Endress+Hauser supplied the customer with applications to fulfill the customer‘s needs.

- Liquiline M CM42 transmitter
- CPS11D Memosens sensor
- CPA450 Holder

Application description

pH adjustment of wastewater from boiler process on 6“ process line. Wastewater from a 30 ft tank is re-circulated via 6“ line until neutralized. The flow rate in the application is approximately 200 GPM.

The Endress+Hauser CM42 with CPS11D and CPA450 was installed in an existing 1.5“ ball valve connected to the 6“ line.

Instrument description

Memosens is a new technology for contactless, inductive, digital transmission of a signal. Sensors with Memosens technology have integrated electronics that allow for saving calibration data and further information such as total hours of operation and operating hours under extreme measuring conditions. When the sensor is mounted, the calibration data are automatically transferred to the transmitter and used to calculate the current measured value. Storing the calibration data in the sensor allows for calibration and adjustment away from the measuring point.

Sensors can be calibrated under optimum external conditions in the measuring lab. Wind and weather do not affect the calibration quality or the operator. The measuring point availability is dramatically increased by the quick and easy replacement of precalibrated sensors. The transmitter does not need to be installed close to the measuring point but can be placed in the control room.

Result

The Endress+Hauser CPS11D sensor with Memosens significantly decreased drift of reading and demonstrates increased sensor life. In addition, the Memosens quick disconnect allows them to change probes without pulling cable every time a recalibration of replacement occurs.

The sensor life of the Endress+Hauser instrument is also double the length of the previous competitor‘s instrument.

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CS0428/24/ae

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CS0428/24/ae/07.08