

SIEMENS

Sitrans Probe LU works when others don't

Process Instrumentation



A municipal wastewater treatment plant (WWTP) in the Southeast United States had been in search of a reliable level instrument to accurately monitor diesel level. The diesel is used to run generators which are essential to operating critical processes in the wastewater and collection system throughout the county in the event of a power outage.

Challenge

Prior to installing a level instrument, the customer had personnel climb the tanks on a periodic basis to physically gauge the diesel level. The customer tried capacitance and ultrasonic based level

technologies from various vendors including E&H, Drexelbrook, and Pulsar. The other vendors' ultrasonic systems failed after being in service for a short period of time. These failures were the result of build up on the face of the transducer, thereby reducing and/or eliminating the amount of ultrasonic energy being transmitted into the vessel.

One competitor's continuous capacitance-based system worked fairly well but with some drawbacks. Not only was it an intrusive technology, but replacement involved a maintenance intensive process.

Answers for industry.

Solution

Siemens personnel had an uphill battle convincing the customer to try a different ultrasonic unit, especially since they had already experienced failures with other vendors' ultrasonic units. Reluctantly, they bought a trial SITRANS Probe LU unit, which has now been in service for approximately nine months .

The Probe LU has worked extremely well and the customer decided to standardize on Probe LU transmitters for all of their diesel levels.

The high output active face of the Probe LU prevented material buildup on the transducer face. Therefore, it was able to transmit enough energy into the vessel, which was in turn reflected back from the surface of the product. This allowed the Probe LU to make reliable measurements where the competitors' ultrasonic units failed. This has resulted in an extremely accurate level measurement and a very happy customer.

Benefits

The SITRANS Probe LU is a two-wire, loop-powered ultrasonic transmitter ideal for continuous level, volume, and flow monitoring in food storage applications, chemical storage vessels, and open channels. The measurement range is up to 12 meters on liquids and slurries. The transducer is available as ETFE or PVDF to suit varying chemical and temperature conditions of your application.

Comprehensive Instrumentation Portfolio

Siemens offers a comprehensive range of process instrumentation for pressure, temperature, flow and level measurement. Pneumatic valve positioners, process recorders, and process protection devices - in addition to weighing technology - complete the package. Whether you need a single transmitter or a complete instrumentation package, Siemens has the technical expertise for your project.

Service and Support: your partner for success

Siemens backs up every instrument with top-of-the-line service and support, including:

- 24/7 technical support at no extra charge
- Field Service personnel with years of experience.
- A Quick Ship program for fast replacement of instruments
- State-of-the-art training facilities and CEU credits

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