Druck
a Baker Hughes business

Application story

Real time monitoring of UST pressure management systems

Druck business
Configurable modular pressure sensors

Application
Monitoring pressure in Underground Storage Tanks (UST)

Customer type
Manufacturer of fueling stations equipment

Product/service
UNIK 5000 configurable modular pressure sensor

Benefits
Excellent customization capability

High accuracy, long-term stability and low cost

Short lead time

Manufacturer of fueling stations equipment uses Druck's pressure sensor to optimize UST pressure management system performance

Druck's customer is a world leading manufacturer of fueling stations equipment and supplies. The company offers products such as curb pump and vapor recovery hoses, safety breakaways, nozzles and emission control system processors.

Challenge

To protect people and the environment, fueling stations are fitted with an Underground Storage Tank (UST) pressure management system. This system is used to track fuel levels within an underground storage tank over time to determine if the tank is leaking and detect the over-production of vapor gas, which needs to be regulated to minimize the impact upon the environment. The UST pressure management system also provides measurements of the fuel level, volume and temperature, helping to capture and reduce the release of fugitive gasoline vapors.

Installed in the UST management system is a pressure sensor which provides pressure-related data. The pressure sensor measures minor pressure changes within the system's regulated UST as levels of fuel increase and decrease in the system. Measurement data provided by the sensor is delivered to a control system which monitors the UST pressure. Druck's customer wanted to replace its aging UST pressure management systems and needed a highly accurate, cost-effective pressure sensor to measure tank inventory data. It was also an essential requirement for the pressure sensor to be available within short lead times.

Solution

Following the customer's thorough supplier review and qualification process, Druck's UNIK 5000 configurable modular pressure sensor was selected as the basis on which to build a bespoke pressure sensing solution.

The UNIK 5000 pressure sensor combines proven silicon technology and analogue circuitry with modular design and lean manufacturing techniques to create a pressure measurement product range, available at short lead times.

Furthermore, the UNIK 5000 configurable modular pressure sensor delivers high accuracy and repeatability, which is critical for continued monitoring of UST parameters in the varied climatic environments where the UST pressure management systems are located.

Added value

Following the successful installation of the UNIK 5000 pressure sensors, the customer has requested the involvement of Druck's regional sales leader, sales engineer and product specialist to support the customer's future system development projects to enable their competitiveness and market share growth.

The customer also achieved the following benefits:

- Smooth incorporation into their current pressure monitoring system meaning no great increase in equipment downtime during the simple installation process.
- The ability to upgrade to their measurement technology to ensure accurate data can be tracked and logged for warranty and asset integrity purposes.
- Reliable technology and delivery to ensure no system issues or delays and the resultant unscheduled downtime of operations that would cause.

For more information

To learn more about this product and Druck, please visit:

Download UNIK5000 datasheet: https://bit.ly/33ZSFca

Learn more about Druck's configurable modular pressure sensors: https://bit.ly/2SVJF16

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