



Application note

LCT4 in pipe line



Features

- Low maintenance
- High accuracy
- High availability
- No pressure drop
- Long term stability and drift characteristics

Background

One of Panametrics' oldest customers, a major international energy and chemical company based in China, relies on ultrasonic flow meters for refined products measurement. Indeed, the customer has become a huge advocate of the high-precision ultrasonic flow meter, LCT4.

Challenges

The customer needed accurate, repeatable and reliable flow meters requiring little maintenance with minimal pressure drops. The meters also had to handle pigging on the line, which meant having the pigs going through the meters. Traditional options like turbine meters, positive displacement meters and even Coriolis meters were not appropriate technical solutions. The pipeline is 800 km long with nine different pumping stations and a throughput of seven million tons per annum. The first phase of this project was designed for flow meters in five of the nine stations.

Solution

The customer previously used a competitor's 0.3% precision ultrasonic flow for pipeline leakage monitoring. However, the team required enhanced levels of accuracy to help optimize its operations. Using Panametrics' LCT4 ultrasonic flow meter technology provides 0.15% accuracy and is now the customer's established flow meter solution. The meters feed their smart Leak Detection software to filter out potential false alarms which are the biggest enemy of any Leak Detection System.

Benefits

Using Panametrics technology, the customer can operate the pipeline with a higher degree of reliability and safety, while providing environmental safeguards with a robust leak prevention system. The customer has had three years of successful operation and low cost of ownership.

Panametrics, a Baker Hughes business, provides solutions in the toughest applications and environments for moisture, oxygen, liquid and gas flow measurement.

Experts in flare management, Panametrics technology also reduces flare emissions and optimizes performance.

With a reach that extends across the globe, Panametrics' critical measurement solutions and flare emissions management are enabling customers to drive efficiency and achieve carbon reduction targets across critical industries including: Oil & Gas; Energy; Healthcare; Water and Wastewater; Chemical Processing; Food & Beverage and many others.

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