

Excellence in integration

SITRANS FCS200 and SIFLOW FC070 set new standards for Coriolis flow measurement of CNG with NTEP approval for custody transfer

Process Instrumentation

Flexible integration options and NTEP approval for custody transfer (CT) are the significant advantages of Siemens measuring devices for natural gas pumps at Bohlen & Doyen. As a producer of natural gas refueling systems, Bohlen & Doyen is one of the most experienced in a very dynamic and fast paced market..

The growth of the CNG industry is being promoted by both national and worldwide targets among others, to increase the proportion of natural gas fueled vehicles on the road. Natural gas offers considerable advantages

in comparison with other biofuels. For these reasons, the automobile and transportation industries are concentrating their focus on CNG.

In accordance with this increasing demand and in a sustainable effort to optimize their gas pumps, Bohlen & Doyen supported Siemens in the introduction of their own Coriolis mass measurement series. The key important criteria are the easy integration of the flowmeters into existing systems as well as the approachability and reliability of Service and Support. .

Since 1950, Bohlen & Doyen has been known as a highly competent and reliable partner in the energy industry.

With approximately 1,700 employees and 45 locations, Bohlen & Doyen offers a complete range, from planning to maintenance and support of projects in the gas, water, waste water, electricity and telecommunication line sectors.

As one of the leading producers in the natural gas fueling system sector, Bohlen & Doyen offers a comprehensive range of services in this area: planning, conceptual design, dimensioning and building as well as assembly of the system technology - CNG or LNG, standard systems for cars as well as bus and truck fueling stations.

Since the end of 2010, Bohlen & Doyen belongs to the SAG Group and can therefore offer a broader and more varied range of services.



Competitive advantages

The SITRANS FCS200 sensor in conjunction with the SIFLOW FC070 Ex CT transmitter provides easy integration into Siemens systems, "Integration is direct and complete", says Marcus Reher, Head of Fueling Station Technology at Bohlen & Doyen.

A single cable provides the connection to the sensor and the flowmeter is ready to operate in real "plug-and-play" manner.

Future enhancements will be simplified by the common Siemens architecture and modularity. The FC200 CNG flowmeter system from Siemens is NTEP approved for custody transfer, an essential prerequisite for public use of CNG pumps.

Traceability

The Siemens Sensorprom unit integrated in the SIFLOW FC070 transmitter is a particularly attractive feature according to Michael Knabe, a Development Engineer in the area of Fueling Station Technology at Bohlen & Doyen. With the saved settings in the Sensorprom, integration reaches a new level. This type of saving enables traceability and facilitates more efficient troubleshooting.

The use of Sensorprom also makes service processes or transfer to new equipment easier. The settings are saved in the Sensorprom itself. For this reason, the same data is available immediately if the Sensorprom is transferred from one transmitter to the other. This saves on resources for reprogramming and staff training. "The savings in time and operating costs matter", says Michael Knabe.

Small is beautiful

The compact size of the Siemens CNG sensors gives installation engineers more freedom of movement, thereby making the installation faster and easier. Also of significance are the high capacities and high-quality materials, such as Hastelloy in this case. The separate mounting of the transmitter reduces the outlay for cables and improves robustness and reliability.

Accessible help

For Bohlen & Doyen, the availability of a supportive and accessible customer service team is a top priority. The integrated global network, with experts in 150 countries, covers all time zones and offers round-the-clock support with a wide range of services. The service concept is rounded off by comprehensive training options to meet our customers needs, either over the Internet or in training rooms.

Equipment

- SITRANS FCS200 sensor
- SIFLOW FC070 Ex CT transmitter
- SIMATIC S7-300 SPS
- WinCC Software
- A number of other Siemens automation systems

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