

Custody Transfer

For proof of delivery, taxation and avoiding quantity disputes

TURNKEY SOLUTIONS

There are many variables to take into account when specifying a custody transfer system and our highly skilled engineers will adapt our system to fit your exact requirements.

TECHNICAL SUPPORT

We are with you all the way. Before, during and after the implementation to secure a flawless integration and operation.

ZERO DOWNTIME

As custody transfer forms a central part of a delivery system; mechanical stability, toughness and durability is an important aspect of the manufacturing and design philosophy.

For more information on these or other of our products or services please visit us on the Web at:

www.cbi.dk

Go4 Fuel Oil Custody Transfer Systems

Accuracy $\pm 0,1\%$



Custody Transfer

Custody Transfer in the oil and gas industry refers to the transactions of a physical substance from one operator to another. This includes the transferring between tanks and tankers; tankers and ships and other transactions.

Custody transfer generally involves:

- Industry standards
- National metrology standards
- Contractual agreements between parties
- Government regulation and taxation

Custody transfer requires an entire metering system that is designed and engineered for the application, not just flowmeters.

Typical System Components include:

- Multiple meters
- Flow computers
- Quality systems
- Calibration units e.g. master-meter

PD Meters

During custody transfer, accuracy of the quantity is of great importance to both the company delivering the material and the actual recipient.

For this purpose Positive displacement (PD) flowmeters, which are highly accurate meters, are widely used for custody transfer of many liquids and have been approved by a number of regulatory bodies for this purpose as PD meters excel at measuring low flows, as well as measuring highly viscous flows.

Because PD meters captures the flow in a container of known volume, flow speed does not matter when using a PD meter.

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SERVICES AVAILABLE

Consulting Services
Technical Support
Installation and Setup
Maintenance
Warranty

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Accuracy $\pm 0,1\%$



TYPICAL USES

- Loading/offloading of tankers, tanks, tank wagons, and barges
- Transfer of petrochemical products in refineries, depots and pipelines
- Calibration of other meters and vessels (Master meter)
- Taxation purposes

System description

The Go4 Custody Transfer System follow the guidelines set by ISO.

By industrial consensus, liquid flow measurement is defined as having an overall uncertainty of $\pm 0.25\%$ or better. Go4 PD meters are $\pm 0,1\%$ or better.

Sampling

An automatic flow-proportional sampling system should be used to determine the average water content and average density for analysis purposes. The sampling system is a critical section during flow measurement. Any errors introduced through sampling error will generally have a direct, linear effect on the overall measurement.

Temperature

Temperature measurement points are situated close to the meters and because measurements affect the accuracy of the metering system they have a loop accuracy of 0.5°C or better, and the corresponding readout has a resolution of 0.2°C or better.

Temperature checks are performed by certified thermometers.

Pressure

Pressure measurements affect the accuracy of the metering system and has an overall loop accuracy of 0.5 bar or better and the corresponding readout has a resolution of 0.1 bar or better.

INTELLIGENT BUNKERING SOLUTIONS

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