



MOMS®

Digitalize your Metering Systems

ODS Metering Systems

klöckner & co

DIGITALIZE YOUR METERING SYSTEMS!

The custody transfer flow measurement world has been subject to a transformation from a mechanical driven technology to a digital environment in the last decades. Traditional mechanical components have been replaced by digital and SMART instruments. The quantity of information coming from the field increased drastically while the overall system functionality remained the same. How can we translate all this new information into real metering functionality? The answer is MOMS®!

MOMS® (Metering Operation & Management System) digitalizes your metering systems, makes them smarter, more transparent and reliable. It converts all available data into real actions and makes the day to day life for the operator, maintenance engineer and management easier. It is an unique tool to minimize exposure from non-compliance to laws, standards and regulations. MOMS® continuously verifies the real time performance, traceability and integrity of your metering systems.

MOMS® combines various digital and statistical technologies and provides an analytical platform to optimize the efficiency of your metering systems assets. MOMS® is a true independent Metering Operation & Management System software package that uses a Windows architecture to operate.

Due to the embedded step-by-step work procedures and statistical process control, human errors will be avoided and employees will be trained on the job.

MOMS® typically runs on the supervisory computer of a Metering Control System or a dedicated server. Based on it's open architecture MOMS® is compatible with other systems using most well-known industrial data protocols.



WHY MOMS®?



Prevent **mismeasurement** losses



Real time **system performance** status



Monitor **live uncertainty**



Limit **human** errors



Minimize exposure to penalties



Enable Compliance to **NEN-EN-ISO 10012**



Ensure **traceability & auditability**



Centralized remote management information

MOMS® = MOMSONSITE® + MOMSREMOTE®

The responsibility and exposure for a metering system operator is becoming more stringent day by day. Due to the high values that are involved with custody transfer measurement, metering system operators typically are facing high exposure to upper management in a complex network of responsibilities and ownerships.

The complexity of metering systems increased and an operator needs to have a multi-disciplinary background to understand what is going on. Due to the complex technology and unclear expectations, the disputes in mismeasurement are increasing.

Furthermore the regulations and laws are changing rapidly. New industrial standards are popping up and finding well trained staff is typically a mission impossible. How to deal with those day to day challenges?

What is MOMS®?

- ➔ MOMS® is an independent Metering Operating & Management System software package.
- ➔ MOMS® typically runs as a layer on top of a metering supervisory system / HMI system or on a separate server for maximum compatibility.
- ➔ MOMS® is an analytical platform to predict and visualize operational accuracy. MOMS® provides maintenance and validation procedures in order to optimize the efficiency of your metering assets.
- ➔ MOMS® is a Windows based platform.
- ➔ MOMS® combines various digital technologies to maximize production uptime through SMART maintenance.



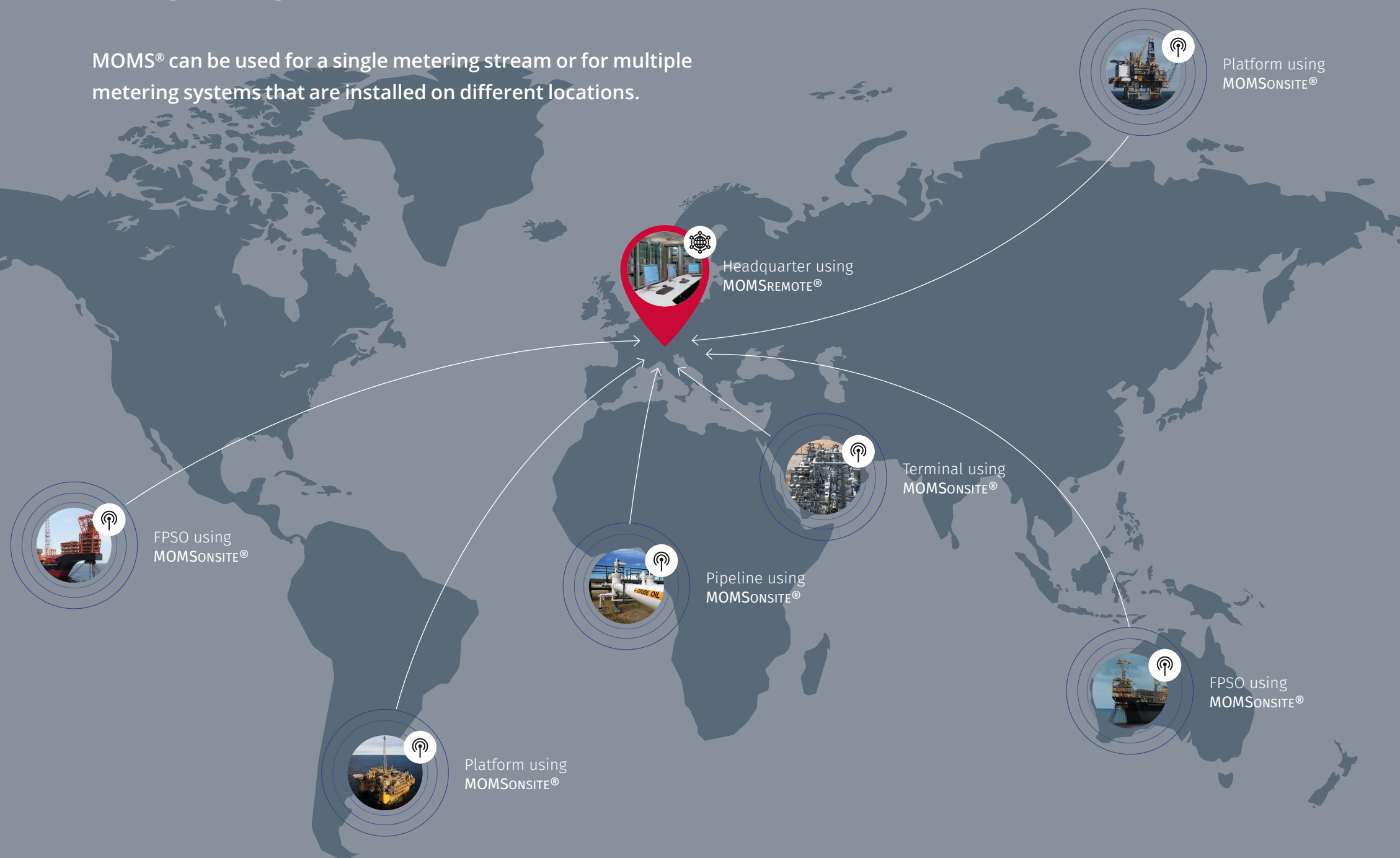
Did you know?

That MOMS® also validates your flow computer calculations?



MOMSONSITE® & MOMSREMOTE®

MOMS® can be used for a single metering stream or for multiple metering systems that are installed on different locations.



MOMSOnSITE®

For single locations we developed MOMSONSITE®. The Onsite version can be used for single stream applications to multiple metering systems that are connected to one supervisory system or server.



MOMSREMOTE®

To connect multiple metering systems on different locations or multiple servers we offer MOMSREMOTE®. The remote version monitors, on management level, metering system performance and Key Performance Indicators through a dashboard inspired display or remote SMART device.



Did you know?

MOMS® offers remote access by an APP on your smartphone or tablet?



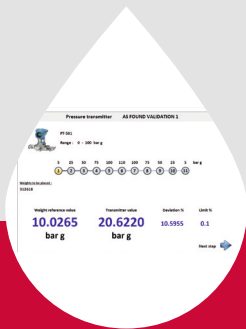
MOMS® FUNCTIONALITY

Every metering application is different. Laws and regulations vary from location to location. Each MOMS® application will be designed custom to the applicable local- and client requirements. MOMS® can offer the following standard functionalities:

1 CALIBRATION & VALIDATION

MOMS® supports most common validation methods and international guidelines (like ASTM D3764) but also offers the flexibility to implement your specific requirements. It supports manual validation but also offers the capability to perform full automated validations and calibrations.

By a sequence of instructions the operator will be guided through a calibration and validation procedure. The results will be stored and presented in free configurable reports.



4 MANAGEMENT DASHBOARD & KPI MONITORING

Top level metering managers or owners want to have a real time insight in the performance of their metering systems at pipelines, terminals, plants, vessels and platforms. Using a dashboard format, MOMSREMOTE® offers you the highlights that are important to you. The metering dashboard can be offered on a tablet or any other smart device.

3 UNCERTAINTY & MISMEASUREMENT

Based upon the readings of the online instruments, results of validations, calibrations and state monitoring of instruments, MOMS® will determine the live uncertainty and predict possible mismeasurement.

2 METROLOGICAL DATABASE

Besides the storage of fiscal reports & trending process data, MOMS® offers you an extensive database of metrological data. Which will enable you to perform accurate data analysis to support in possible disputes. The database is also used to store all metering system documentation (like drawings and manuals) & software files (from flow computers, PLC and supervisory systems)



5 REPORT MANAGEMENT

MOMS® offers you free programmable reports and a storage management tool to save and back-up your reports for many years specially adjusted to your network and server architecture. It also offers the possibility to exchange encrypted reports in a safe manner making use of the internet or non-public /dedicated networks.



6 EQUIPMENT INSPECTION & CBM

MOMS® not only monitors the uncertainty of the instruments or systems it also recommends the operator to perform maintenance, calibration and validation. Based on statistical process control it predicts maintenance intervals. MOMS® provides the operator with Root Cause Analysis about failures and non-conformities.

MOMS® users are guided step-by-step on how to perform inspections and maintenance, how to store relevant equipment data by programmed instructions.

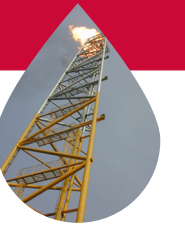
8 CLIENT CUSTOMIZATION

Beside performing calculations and analysis as per international standards like ISO, BS and ASTM, MOMS® offers the flexibility to implement client specific modules. We have developed functionality for country specific regulations (for example ANP Brasil) and client wishes. Through this way we can comply for 100% with the applicable project requirements.



7 BALANCING, PIPELINE & EMISSION MONITORING

Metering systems grids and networks are a complex combination of different technologies, using different measure units in different product phases. MOMS® makes easy comparison possible in complex plant balancing, pipeline flow and emission applications.



LET'S TALK!

Contact your local office now



THE NETHERLANDS

ODS Metering Systems B.V.

+31 180 640 889

SINGAPORE

ODS Asia Pacific Pte Ltd

+65 972 027 99

SAUDI ARABIA

ODS Saudi Company

+966 13 832 6957

UAE

ODS Middle East FZE

+971 4 821 7200

BRAZIL

ODS do Brasil Sistemas de

Medição LTDA

+55 19 328 300 02

BELGIUM

ODS Belgium B.V.

+32 3 600 21 00

www.ods-metering-systems.com



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