ODS
ANALYSER & SAMPLING SYSTEMS

Accurate quality measurement

ODS Metering Systems

klöckner & co

WE ARE **ODS METERING SYSTEMS**

In today's dynamic energy landscape, precision and reliability in measurement are essential. ODS Metering Systems has a long history in quality measurement, delivering innovative custody transfer flow measurement solutions and analysis solutions that empower industries to achieve unparalleled accuracy and efficiency.

As the demand for accurate measurement and analysis intensifies, the role of analyser and sampling systems has never been more critical. These systems not only provide real-time data essential for maintaining operational efficiency but also enable compliance with stringent regulatory standards.

At ODS Metering Systems, we understand the importance of these technologies and are committed to delivering solutions that enhance productivity, ensure safety, and drive sustainable growth for our clients worldwide.

You can count on our team to be available, responsive and ready to support you!

WHAT SETS US APART

- **One-stop-shop** solutions provider
- **Authorised & independent** service provider
- **Global** service
- Over **70 years** service experience
- Highly **qualified** and **experienced** personnel
- **In-house** fabrication
- **Custom** tailored solutions

OUR ANALYSERS AND SAMPLING SOLUTIONS

QUALITY MEASUREMENT SYSTEMS
page 6

SYSTEM INTEGRATION
page 8

SAMPLING SYSTEMS
page 10

EMISSION MONITORING SYSTEMS
page 12

Did you know?

We design the sample conditioning system and sample take-off to meet your specific application.

QUALITY MEASUREMENT SYSTEMS

We design the sample conditioning system and sample take-off to meet your specific demand. The demand for quality measurement data is increasing due to tighter product specifications, further process optimization and increased automation. As an independent integrator, ODS is able to select the most optimum instruments for your analyser and sampling systems, engineer the system for optimal reliability and performance and build it together in the appropriate cabinets or analyser housing. This always with a clear view on minimizing maintenance and cost of ownership

Being active in a wide variety of industries, such as oil and gas, petrochemical, refineries, fine chemicals, carbon capture, hydrogen and biogas, ODS has got a wide experience with the system integration of the following types of analysers:

- Gas Chromatographs
- Continuous gas analysers (H2, O2, CO, CO2, H2S, TOC,....)
- Physical property analysers
- Liquid analysers
- Transmission diode lasers
- H2O / HC Dewpoint analyser
- H2O analysers
- Emission monitoring systems
- Biogas
- FTIR
- XRF

Adjacent to the online analysis, a manual or automatic sampling system can take samples from the gas or liquids for further analysis in a laboratory.

SYSTEM INTEGRATION

We typically integrate our analyser solutions within open shelters, cabinets or conditioned analyser houses to ensure optimal performance.

Open shelters
A selection of analysers is suitable to be installed outdoors, with ATEX certification and suitable IP rating. For these analysers, an optimised open shelter solution is ideal. The open shelter will protect the analysers against direct sunlight and winds, to ensure a stable environment.

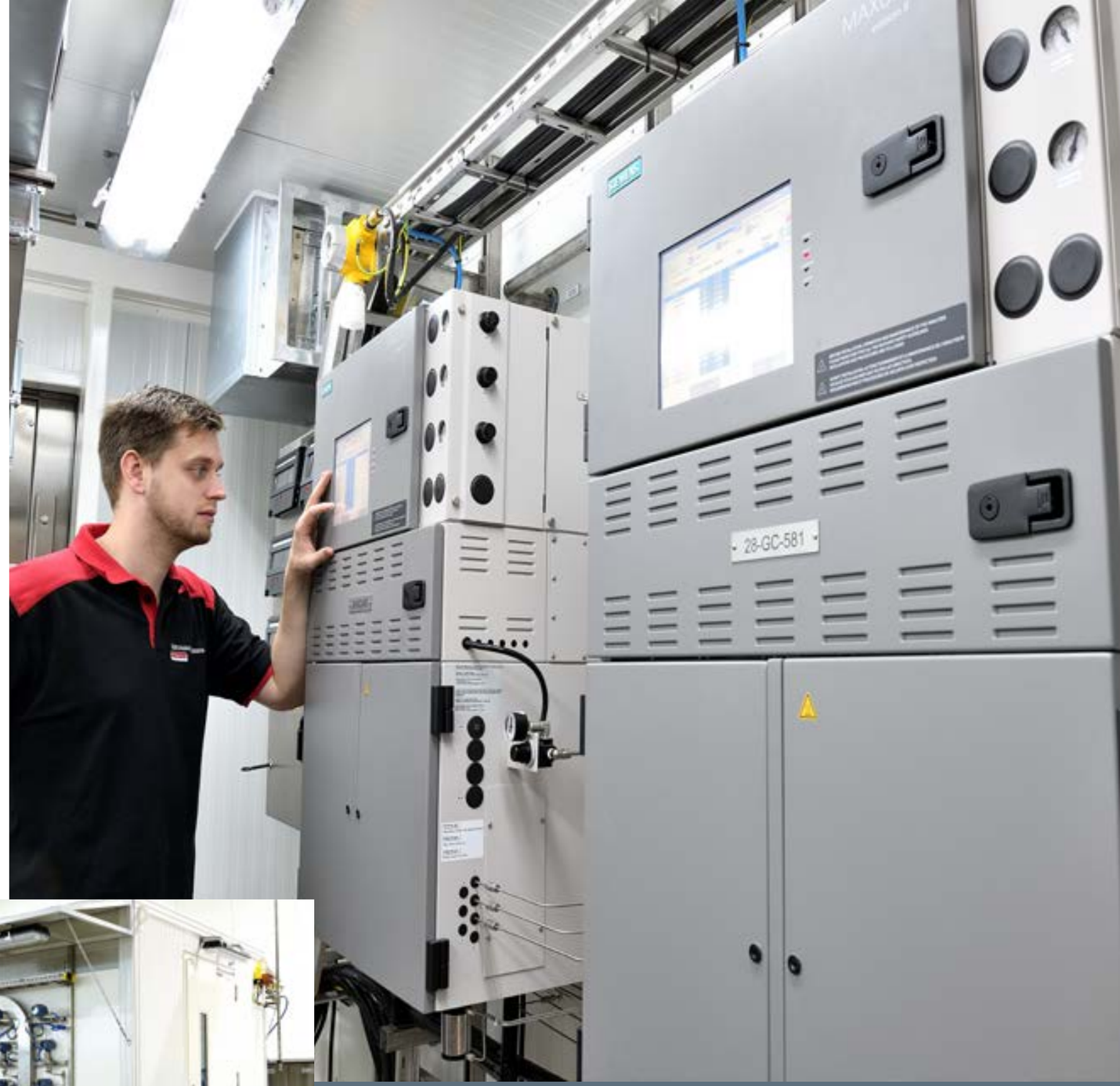
Analyser cabinets
Some analysers need to be installed as close as possible to the sample take off point and if there's no technical building nearby, they require an appropriate cabinet, in many cases temperature controlled. ODS can supply analyser cabinets made of stainless steel or GRP including sample conditioning and take care of all the requirements so the analyser can function to perfection in all weather and process conditions.

Analyser house
Some analysers require a very stable environmental condition for optimum performance. These analysers are typically installed in a HVAC controlled analyser house, which are, due to personnel accessibility of these analyser houses, safeguarded by a fire and gas system.

Analyser houses can be supplied in customized sizes, GRP, stainless steel or concrete finishing.

Modular design
ODS offers modular analyser systems, where analysers are installed on racks or in containers with all the tubing, fittings and sampling conditioning installed. This enables ODS to maintain the flexibility that is required in a wide range of revamp projects where the existing analyser installation can be rejuvenated to the latest standards and technology, in many cases even without a shutdown of the installation.

For offshore applications, the available space is usually a constraint. Furthermore the corrosive and salt laden environment poses its own unique challenges.



SAMPLING SYSTEMS

Sampling systems need to ensure that a representative sample is provided to the analyser in time and that the sample is provided in the right conditions.

Inline grab sampling

Insertion type flow-proportional grab sampling systems are the most cost effective sampling systems. A sample extractor is installed in the main line to capture the sample from the flow and discharge it into a sample receiver. The receiver housing can contain multiple receivers with manual or automatic selector. The flow proportional control can be integrated within the Metering Control System.

Fast Loop Sampling

Fast Loop Sampling Systems are often used when measurement systems are in 24×7 continuous operation, such as for example pipeline metering systems. An additional advantage is that process analysers can be integrated in the fast loop for real time BS&W (water-cut) analysis, densitometers and other on-line measurement devices. In some cases additional mixing with a pump or static mixer is required, based on the process conditions.

Manual sampling

ODS understands the technical and safety issues in manual sampling proces. We offer qualified expertise and build an intrinsic level of safety into our manual sampler designs. ODS engineers and constructs both open and closed manual sampling systems.

Did you know?

We can deliver several types of sampling probes.

EMISSION MONITORING SYSTEMS

Continuous Emission Monitoring Systems are typically installed to prove compliance to emission regulations to environmental control authorities.
ODS has experience in designing integrated Continuous Emissions Monitoring Systems, and are well informed about the advantages and disadvantages of all available measurement principles and makes in the global market, both for general purpose and Ex applications.

These systems are typically designed according to European regulations or US EPA 1990 Clean Air Act, but ODS can also comply to other local requirements. Based on your application, both inside and extractive analyser Systems can be supplied, where the systems can meet the QAL1, 2 & 3 requirements. Continuous Emissions Monitoring Systems are used for the continuous measurement of pollutants such as:

- CO
- NOx
- CO2
- Sox
- Total Hydrocarbon (TOC)
- Particulate Matter (PM)
- Ammonia

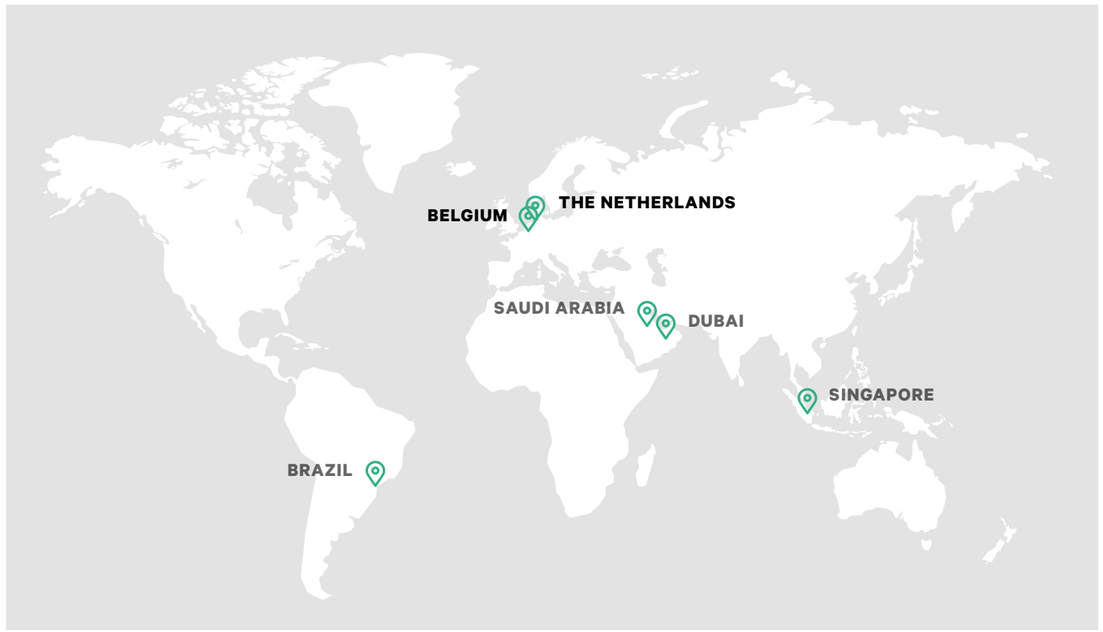
These systems are most commonly located in the exhaust stack or vent of industrial plants where, pressure and temperature are measured in conjunction to flow in order to determine emissions in pound per hour or tonnes per year.

Did you know?

We can also deliver flow meters for emmission monitoring.

LET'S TALK!

Contact your local office now



THE NETHERLANDS
ODS Metering Systems B.V.
+31 180 715 400

BELGIUM
ODS Belgium B.V.
+32 3 600 21 00
sales@odsenergysolutions.com

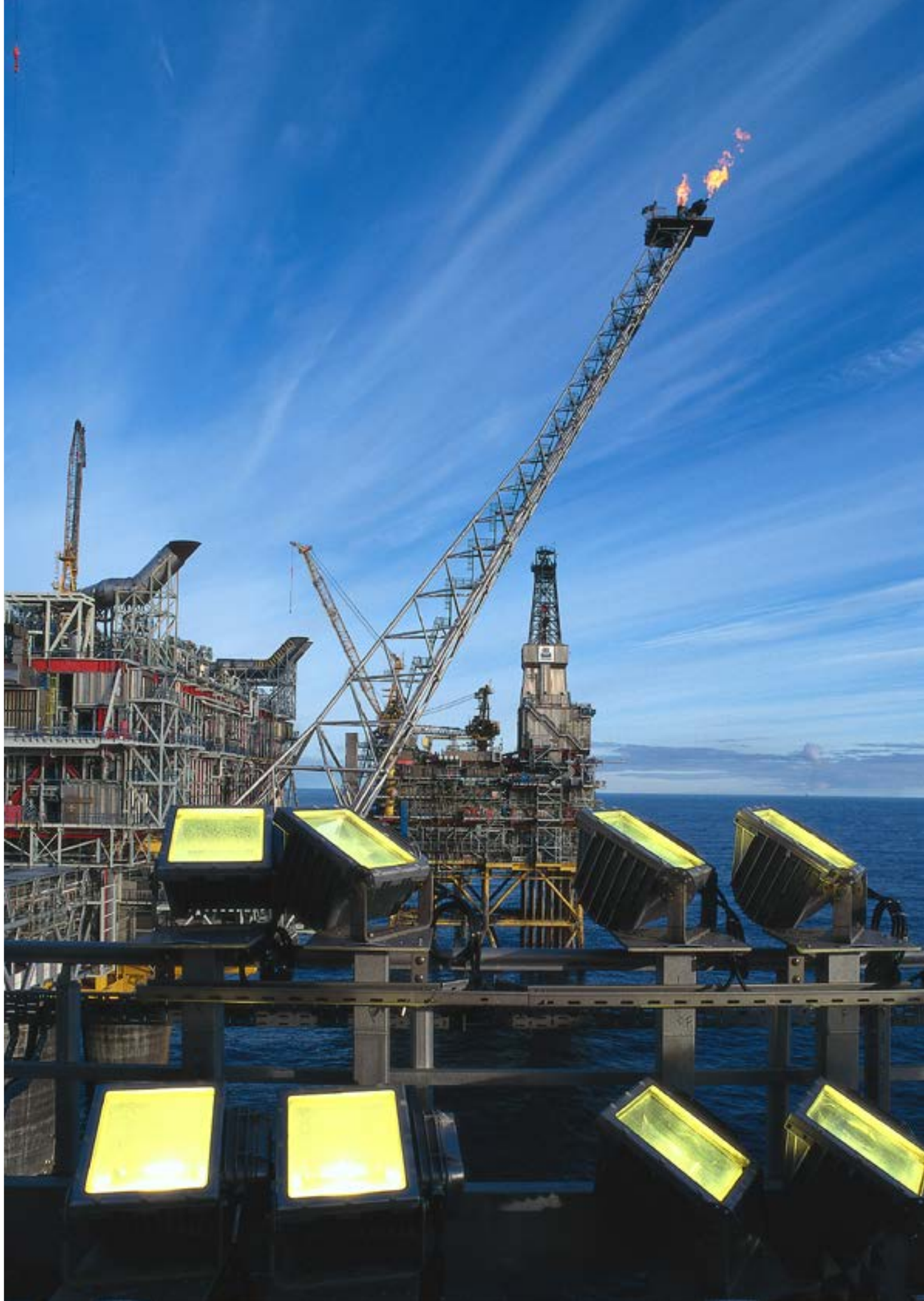
SINGAPORE
ODS Asia Pacific Pte Ltd

BRAZIL
ODS do Brasil Sistemas
de Medição LTDA

SAUDI ARABIA
ODS Saudi Company

DUBAI
ODS Middle East FZE

www.ods-metering-systems.com



FOLLOW US ON LINKEDIN!