

# SIEMENS

*Ingenuity for life*

Analytical Products and Solutions

## Analytics for off-shore industry

Environmental, safety and quality

[usa.siemens.com/analyticalproducts](http://usa.siemens.com/analyticalproducts)

Whether your analytical need is environmental, or relates to quality or safety, Siemens has a solution that is suitable for the harsh off-shore environment. With over 40 years of experience in process analyzers, we have become a worldwide market leader for on-line process gas chromatography by utilizing leading-edge technology. Our comprehensive measurement solutions address life-cycle cost and provide long term performance and simplicity.

When it comes to environmental and emissions monitoring, a long-term business relationship with a reliable partner is important. You have the confidence of a Siemens measurement system that helps you to be compliant with environmental regulations. We have built an industry-leading reputation by investing in long-term security through continuous innovation, maximum compatibility, the largest number of field technicians and superior expertise.



## Siemens specializes in...

### Off-shore analysis

- Exploration, production, platform and FPSO applications

### Meeting analytical needs

- Environmental, safety, and quality

### Providing value to customers

- Continuous, automatic, and connective analyzers

### Ensuring key benefits

- Simple, modular, and compact design



## Environmental

### Continuous monitoring

The impact of air pollution from ships is under constant scrutiny from the world's environmental regulation agencies. The marine industry is required to stay abreast of continuously changing environmental requirements. Now, MARPOL regulations provide even more stringent ship emission limits; in particular, requiring installations of NO<sub>x</sub> abatement systems, such as selective catalytic reduction systems and proof of their operation. Siemens gas analyzers help you meet the stringent requirements of emissions monitoring. We provide proven solutions for CEMS, Flare and Ammonia slip stream monitoring. Utilizing standardized continuous gas analyzers systems, measuring CO<sub>2</sub>, NO<sub>x</sub>, SO<sub>x</sub>, VOC and ammonia, results in simplified design with minimum maintenance.

## Product Transfer

### Accurate flow measurement

Being accurate when it counts the most is crucial when transferring product. Ultrasonic Flowmeters measure flow for precise product quantification. The clamp-on design for vapor streams offers simple installation with non-intrusive and bidirectional measurement. The low cost of installation and small footprint make it ideal for space-constricted applications. Virtually maintenance-free with remote health monitoring capabilities, they further reduce the cost of ownership.

## Quality

### Ensuring product meets specifications

Meeting product quality requirements is ensured when using online gas chromatography to measure stream composition or BTU for process control and custody transfer. When space is at a premium, a compact and rugged analyzer design allows for easier and cost-efficient integration into the off-shore process environment. Utilizing a standardized modularity concept, maintenance is simplified by fast and easy replacement of modules instead of repairing individual components. The reduced need for infrastructure allows for installation directly at the sample point. Cost of ownership is minimized due to low utility gas consumption, low power usage and no need for instrument air. Therefore, this permits gas chromatograph precision in an environment where previously only non-gas chromatography technologies could be utilized.

Combining analytical and ultrasonic flow measurement solutions ensures seamless compatibility from a single source. We are Siemens. We can do that.

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