



KAMINCO PRESENTS **OMICRON** *Norway*



OMICRON has, since the company was founded in 1989, evolved into one of the world's leading manufacturers and suppliers of equipment for safety monitoring and environmental surveillance on all types of tanker vessels. Products include high level/overflow alarm systems, gas detection systems, tank and vapour pressure systems, temperature alarms and calibration equipment.

Since delivery of the first generation independent high level system in 1989, OMICRON has developed a range of high-tech systems for the shipping industry.

OMICRON's products are designed to attract minimum maintenance overheads and we go to great lengths to ensure that deliveries are made at the right time and right price. We focus on development of systems that at all times comply with the best environmental and safety standards and follow all requirements from class societies and IMO. More than 1800 vessels are using Omicron's equipment.

OMICRON ALARM SYSTEMS

- Level Alarm System (OAS-5)
- Water Ingress System (W.I.)
- Gas Alarm System (OGS 3.1)
- Gas Alarm System (OGS 2.1)
- Pressure Alarm System (OPS/OVS P21)
- Vapour Alarm System (OVS 2.1 OP)
- Temperature Alarm System (OTS)



SPECIAL SYSTEMS AND PROJECTS

In addition to existing systems and products Omicron's engineers have a wide experience in tailor make systems for anyone's requests. This could either be based on special combinations of existing systems, special gas detection or systems special designed for FPSO, LNG, LPG, SHUTTLE TANKERS and STORAGE TANKERS.

The following topics cover examples on systems Omicron have designed:

High-level and Overflow alarm systems special developed for LNG tankers (low temperature down to -163 °C), Chemical tankers (high quality steel for aggressive cargoes) and asphalt tankers (high temperature cargoes up to 250 °C).

Flame and Smoke system special developed for detection of flame and smoke in STL/ Access trunk onboard FPSO's.

Twin system (gas warning) special developed for detection of HC gas in turret loading area onboard shuttle tankers.



Complete gas warning system systems on LNG tankers. Different design depending on which type of ship design (Moss-type with spherical tanks or French design with membrane tanks)

Complete gas-warning systems for production area, pump rooms and hull monitoring (void spaces/ballast tanks) for FPSO's.

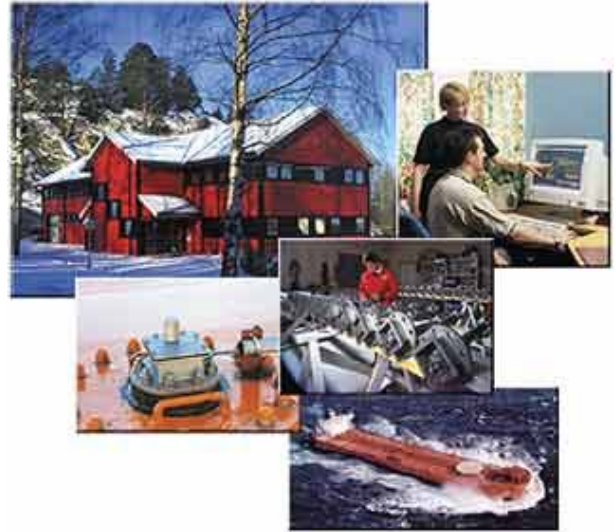
Flue-gas monitoring system for environmental purposes onboard cruise vessels, offshore installations and shore based industry.

Kindly take contact for more technical information or technical discussions for these kinds of projects.

Omicron's product range for special vessels

Independent High Level and Overfill alarm system OAS 5 (ref. product flyer)

Standard type approved level alarm sensors (95 % and 98 %) or tailor made special alarm sensors for additional alarm levels other than required by class. The system is approved and meets the requirements from various classification societies.



Gas detection alarm system OGS 3.1(scanning) / OGS 2.1(fixed) (ref. product fliers)

Tailor made systems according to customers requirements for detection in void spaces and surroundings where the cargo tanks (membrane or independent) are located. Special arrangements for gas detection in the engine room where the "boil off" is used for main propulsion, production areas and critical spots in various areas can be delivered. Our detection systems meet the highest demands concerning scanning cycle time (max 30-min for gas detection onboard gas tankers), quality for IR and Combustible fixed sensors and requirements from various classification societies. For our fixed system we have also implemented bus solutions, which make the installation simpler.

All system are available with bus solution (RS-485 MODBUS RTU) for connection to host computer.

In addition, Omicrons' standard products (Pressure Alarm system and Temperature Alarm System) can also be delivered in conjunction with the above arrangements according to the customers' requirements.



OGS 3.1



OGS 2.1

Various Products

- Portable Gas Detection Monitors
- Portable Flugas Analyzer
- Re-calibration Equipment
- Alarm lights
- Alarm horns

Come in touch with **Kaminco** for more information and enquires at the:

Phone number: +30 210 45 28 250 Fax: +30 210 42 94 887

Email: marine.projects@kaminco.com



Vouliagmenis Ave. & 11 Nirvana Str. P.O.Box: 70897, Voula 166 73, Greece Phone: +30 210 45 28 250 Fax: +30 210 42 94 887

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