

GAS SAMPLING SYSTEM

TYPE OGS 3.1

FOR ADVANCED SOLUTIONS IN
GAS SAMPLING



OGS 3.1 is our advanced model for special requirements. Different models and options cover most applications you will find onboard any kind of tankers with special needs. All delivered parts are completely assembled ready for interconnection to on-site application. **OGS 3.1** is based on a scanning method, which means that sample points are being connected to sensor(s) in a cyclic sequence. The operator panel has LCD display and individual LED lamps indicating each measuring point status. To minimize scanning cycle time and guarantee fresh samples at all times, the system has two vacuum pumps. One main pump, continuously sucking from all sample points and a smaller sample pump taking samples from the actual point according to the sequence. This insures quick response if gas is detected. The system is continuously monitoring all pneumatic components in the cabinet against malfunction. All types of malfunctions including leakage will be detected and alarmed. Purging of sample line is done immediately after each sampling is finished.

• The system fulfils the latest IMO and classification societies' rules and regulations.

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Solutions you can trust



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Features:

- Infrared hydrocarbon sensor(s) with range 0 - 100 % L.E.L/VOL.
- Various type of toxic sensor(s).
- Special sensors (e.g paramagnetic, FTIR and others).
- Multigas analysing. Up to 3 different gas sensors simultaneously.
- Low and high gas alarms.
- Bulkhead penetrations.
- Flame arrestor and shut-off valve for each sampling tube.
- Automatic and sequential purging of each sampling tube.
- Semi-automatic test facility for zero and span.
- Two vacuum pumps (main and sample).
- Non-return valves in ballast tanks in order to avoid liquid entering into the system.
- Extensive hardware and software system monitoring.
- Repeater display units. Up to 5 additional units with control transfer function.
- Alarm printer.
- 32 pc Aux. relay outputs. Freely configurable for individual point.
- Eex version for sampling system (cabinet can be installed in hazardous area).
- Serial line communication RS 485/422 MODBUS RTU
- Auto/Manual St. By pump layout for sampling pumps.
- Adjustable time sequence (purge/sampling) on every sampling point.
- Special design for materials required for extreme gasses (e.g high concentration H_2S , SO_2 , NH_3 etc.).
- Combination/integration with external point sensors system (sensors of any kind)

Specifications:

Number of gas sampling points	Max. 48
Purge air supply	6-8 bar
Power supply	230V AC Nom.
Alarm for clogged tubes	Yes
Calibration gas	Included in package
Serial line communication	RS 485/422 (MODBUS RTU)
Sample/purge time range	25 s - 9999 s

