

GAS SAMPLING SYSTEM – TYPE OGS 3.1

For advanced solutions in gas sampling
Product datasheet



Gas Sampling System OGS 3.1 is our advanced model for special requirements. Different models and options cover most applications 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.

EXAMPLE OF SYSTEMS WE SUPPLY ONBOARD SHIPS

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 pcs Aux. relay outputs. Freely configurable or 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 H₂S, SO₂,NH₃ 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