G7000 MULTI GAS MONITORING SYSTEM
COST EFFECTIVE EMISSION MONITOR FOR ENVIRONMENTAL COMPLIANCE
KEY FEATURES

- Up to 5 sample points
- Low cost of ownership
- Durable and robust design for marine applications
- Automatic calibration without special gases
- Suitable for vibrations, high temperature & humid processes
- Choice between different materials
- Well-proven extractive system
- Unique double sample conditioning ensures fast response time
- Easy installation and maintenance - no alignment required
- Long service intervals

WELL-PROVEN TECHNOLOGY

The G7000 can monitor the SO2 and CO2 concentrations in exhaust gas. It provides you with an accurate measurement of SO2 in ppm, CO2 in percent, as well as presents the SO2/CO2 ratio.

The gas analyzer is based on a non-dispersive infrared measurement technology, which has been well proven in many industrial applications.

Our unique double sample conditioning unit extracts moisture from the sample and ensures a fast response time. This unique feature allows us to sample from up to 5 different sample points per system.

COST EFFECTIVE CEMS

G7000 is a cost effective CEMS (continuous emission monitoring system). The modular design of the system makes it possible to monitor different gasses according to customer specification.

Furthermore, the system uses an air conditioned cooler therefore, the system has a very low consumption of compressed air, which significantly reduces the total cost of ownership.

All materials are specially selected to resist the wet and acidic exhaust gas after a scrubber. The robust design is aimed for harsh marine applications and designed for long intervals between service.
ENVIROMENTAL COMPLIANCE

SIMPLE CALIBRATION AND MAINTENANCE

The G7000 is designed for easy calibration and requires minimal maintenance. The system is arranged with automatic calibration by means of an integrated optical filter together with instrument air. The system can also be verified by test gases in order to show compliance.

APPROVED AND COMPLIANT SOLUTION

The G7000 is fully compliant with IMO regulations - MEPC. 259(68). The G7000 together with Green Instruments’ G6100 Water Monitoring System is a complete monitoring system according to MEPC. 259(68).
SPECIFICATIONS - G7000

MONITORING CABINET

**Measuring principle**  
NDIR  
Other principles available upon request

**Measurement range**  
CO2: 0 - 10 %; optional: 0 - 25%  
SO2: standard 0 - 200 ppm; optional 0 - 1000 ppm  
Monitor other gasses upon request

**Linearity**  
≤ 1 % of F.S.

**Repeatability**  
≤ 0.5 % of F.S

**Calibration**  
Zero Calibration: Automatic using compressed air  
Span Calibration: Automatic using inbuilt optical filters  
Possible to connect mixed test gasses for verification

**Power supply**  
230 V AC - 50/60 Hz - 16 A

**Alarm outputs**  
2 alarm relays for SO2/CO2 ratio level and system failure; NO/NC

**External communication**  
Modbus TCP/IP

**Material/Enclosure**  
Painted mild steel RAL 7035 / IP 55

**Ambient temperature**  
Tested from 5 to 55 °C

**Gas connections**  
Heated sample hoses from up to 5 probes  
Compressed air: 1/4"NPT Female.  
Air consumption approx. 1L/min per probe during calibration

**Sample flow**  
Appx. 1.0 l/min.

**Dimensions/weight**  
1260 x 955 x 530 mm (H x W x D)/185 kg

PROBES AND HEATED SAMPLE LINES

**Power supply**  
Supplied from Monitoring Cabinet

**Material**  
316L, Hastelloy, Duplex (To be specified upon order)

**Flange dimension**  
DN65/PN10

**Probe insert length**  
500 mm (Cut to length onsite)

**Sample line length**  
4 - 6 - 9 m; optional length available upon request

**Exhaust gas pressure**  
-50 - 500 mm WC dependent on material

**Exhaust gas temperature**  
0 - 500 °C

Specifications subject to changes without notice