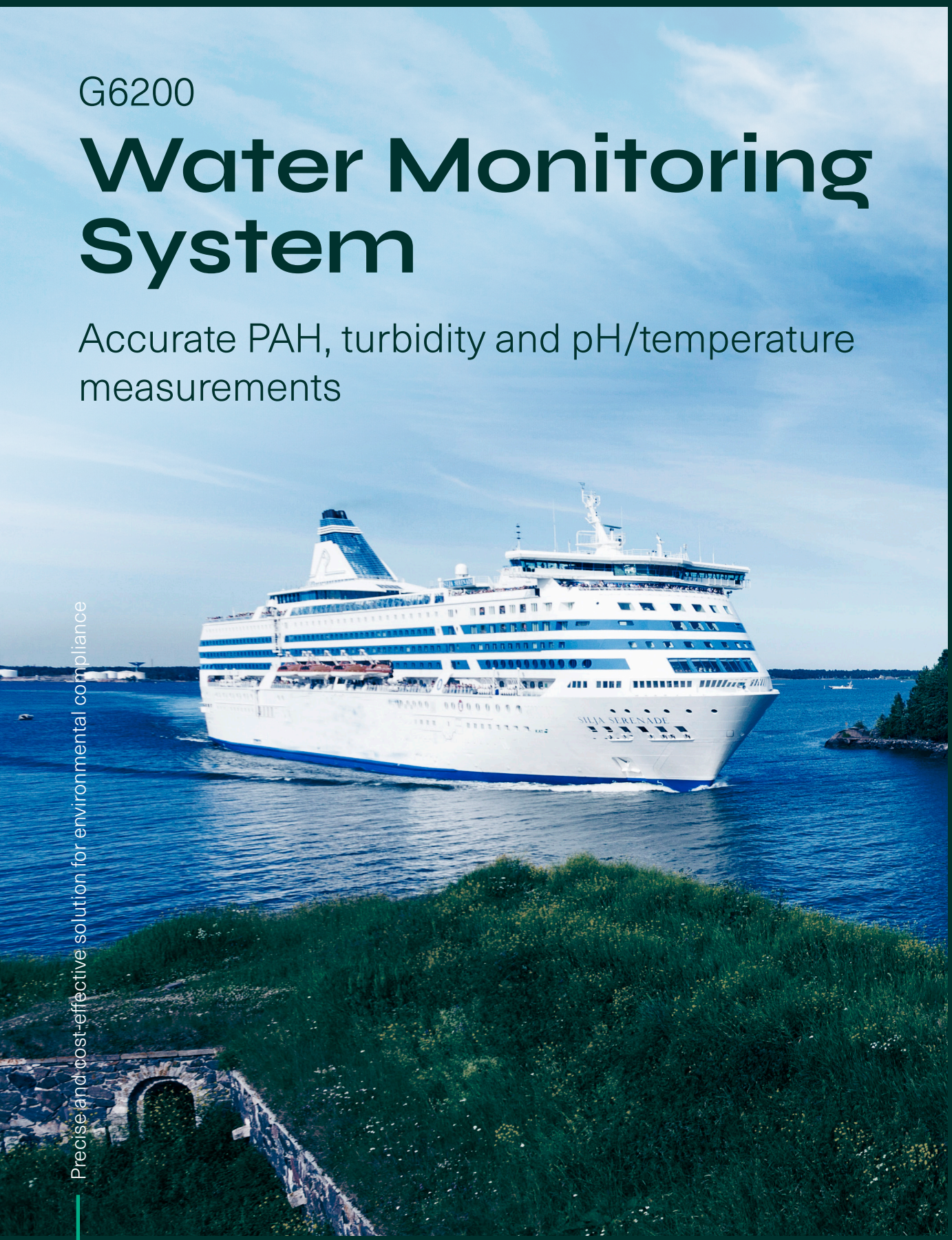
G6200

Water Monitoring System

Accurate PAH, turbidity and pH/temperature measurements



Precise and cost-effective solution for environmental compliance

Maritime

Green Instruments

The G6200 Water Monitoring System is a simple and reliable scrubber water monitoring solution, fully compliant with MEPC. 259(68) and MEPC. 340(77). Designed for accurate measurements of exhaust gas cleaning systems (EGCS), it is a cost-effective solution and complies with increasingly stringent emission regulations.

Wash water monitoring

Key features

- Durable and robust design
- Designed and certified for the harsh marine environment
- Fully compliant with MEPC. 259(68) and MEPC. 340(77)
- Simple operation – minimum maintenance
- Simple installation – minimal footprint
- Used in open, closed, and hybrid systems
- On-site verification and calibration
- Covers a broad range of temperatures, pressures, and flow rates
- Low cost of ownership
- Global service and support

The G6200 Water Monitoring System is a modular system that continuously monitors scrubber water. With its robust and durable design, the system can be used in both open, closed, and hybrid systems and includes a de-bubbler, which avoids interference due to sample degassing. Compared to our G6100 version, the G6200 Water Monitoring System is a more simplistic system with no need of either a pump cabinet unit or a pressure reduction unit. The G6200 Water Monitoring System only requires water from scrubber pumps or a free-standing supply pump.

Flexible monitoring system

The G6200 Water Monitoring System has a wide water pressure and flow range, making it suitable for both the inlet and outlet of the scrubber. The ranges are highly flexible, meaning different pumps can be connected directly onto the system, such as impeller pumps or hose pumps. Having a water monitoring system on board is an extremely effective way of ensuring compliance with international regulations. The G6200 Water Monitoring System is fully compliant with MEPC. 259(68) and MEPC. 340(77).

Customizable and cost-effective

The G6200 Water Monitoring System is customizable and cost-effective. The system can be configured to meet the individual customer's unique specifications. In other words, customers decide which sensors they want in accordance with potential needs or requirements.

Reliable and simple operation

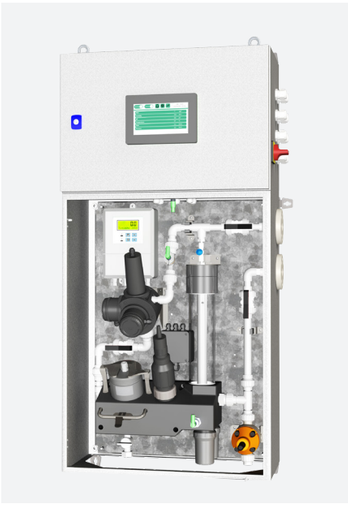
The system is an operator station with an optional sampling system which supplies the integrated sensor modules. It has a modular configuration with PAH, turbidity, and PH sensor modules. It provides reliable and highly accurate measurements and can be verified and calibrated on-site using certified standard buffers. Verification and calibration are simple tasks to do and can easily be carried out by the crew or by Green Instruments service team. Verification and calibration kits specifically designed for the G6200 Water Monitoring Systems are available for different measurement ranges.

Low-cost system

The G6200 Water Monitoring System requires little maintenance due to the cleaning effect achieved from the rapid water velocity. This helps to keep the optical parts free from fouling.

Service and support

Green Instruments is a pioneer in the water monitoring of exhaust gas cleaning systems (EGCS). The G6200 Water Monitoring System is simple to install and leaves a small footprint. The system's consumable parts can easily be replaced by the crew. This ensures low cost of ownership. Should assistance be needed regarding replacement of e.g. consumables or retrofit to a new system, Green Instruments provides full service and support to ensure optimal operation throughout the entire product lifetime.



Certificates

CE

TYPE APPROVED PRODUCT DNV DNV.COM/AF

BUREAU VERITAS 1828 BUREAU VERITAS

KR KOREAN REGISTER

APPROVED TYPE APPROVAL SCHEME

CHINA CLASSIFICATION SOCIETY

ABS TYPE APPROVED PRODUCT

RINA

ClassNK

Specifications – G6200

Power supply

Standard	400 – 440 VAC 50/60 Hz
Ambient temperature	0 – 45 °C (tested to 55 °C)

System components

- 7" TFT LCD color touch screen
- Strainers
- De-bubbler
- Safety/pressure relief valve
- Calibration valves
- Flow sensor
- Pressure sensor

Optional	Electric actuated ON/OFF valve Pressure reduction valve

Sampling

Sample connections	Inlet and outlet: DN20 PN10, JIS 3/4" 10K, and 3/4" RG
Sample flow	2 – 10 l/min
Sample temperature	0 – 50 °C
Sample pressure inlet	With pressure reduction valve: Max 10 bar(g) Without pressure reduction valve: Max 2.5 bar(g)
Sample pressure outlet (backpressure)	Max 1.8 bar(g)
Sample limits	2 – 11 pH units

Communication

Bus	Modbus TCP/IP
Optional	Ethernet switch or Modbus TCP/RTU converter
Relay	Start/stop signal for pump

Material/enclosure

Enclosure	Painted mild steel RAL 7035 / IP 65

Sensor types

PAH range (sensor type G6111)	0 – 100 µg/l phenanthrene equivalence 0 – 800 µg/l phenanthrene equivalence 0 – 100/800 µg/l phenanthrene equivalence Accuracy max ± 5 % of range
Turbidity range (sensor type G6120)	0 – 400 NTU Accuracy 0 – 40 NTU max ± 2 NTU Accuracy 0 – 400 NTU max ± 5 %
PH/temperature range (sensor type G6130)	0 – 14 pH units Accuracy max ± 0.2 pH units

Dimensions/weight

Dimensions	600 x 1200 x 300 mm
Weight	85 kg

Optional equipment

- Impeller pump 3 x 440 VAC
- Hose pump 3 x 440 VAC

Specifications subject to changes without notice

EUROPE
Green Instruments A/S
Erhvervsparken 29
9700 Brønderslev, Denmark
Tel: +45 96 45 45 00

sales@greeninstruments.com

AMERICA
Green Instruments USA, Inc.
6750 N. Andrews Avenue Suit 200
Fort Lauderdale, FL-33309, USA
Tel: +1 954 613 0400

usa@greeninstruments.com

ASIA
Green Instruments (S) Pte. Ltd.
4008 Ang Mo Kio Avenue 10
#01-09/10 Techplace I, Singapore 569625
Tel: +65 3100 0577

sales.sg@greeninstruments.com

Green Instruments

For more information, please visit us at www.greeninstruments.com.