

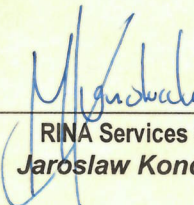


TYPE APPROVAL CERTIFICATE
No. MAC036022XP

This is to certify that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

<i>Description</i>	Water Monitoring System
<i>Type</i>	G6200
<i>Applicant</i>	Green Instruments A/S ERHVERVSPARKEN 29 9700 BRØNDERSLEV DENMARK
<i>Manufacturer</i>	Green Instruments A/S
<i>Place of manufacture</i>	ERHVERVSPARKEN 29 9700 BRØNDERSLEV DENMARK
<i>Reference standards</i>	Rules for the Classification of Ships - Part C - Machinery, Systems and fire protection - Ch.3, Sect.6, Tab.1.

Issued in **RINA Poland Plan Approval Centre** on **April 20, 2022**. *This Certificate is valid until* **April 19, 2027**



RINA Services S.p.A.
Jaroslaw Kondracki

This certificate consists of this page and 1 enclosure.



TYPE APPROVAL CERTIFICATENo. **MAC036022XP****Enclosure - Page 1 of 2**
G6200**Product Description:**

The G6200 module is a continuous in situ water monitoring system for wash water from exhaust gas cleaning systems. The unit consists of two main components; an electrical cabinet and sensor cabinet which includes measuring modules such as G6111 for PAH, G6120 or G6121 for Turbidity, and G6130 for pH/Temperature.

Technical Data:

G6200				
Function	Monitoring water in acc. with IMO MEPC.259(68) and MEPC.340(77).			
Power Supply	400 - 440VAC 3 Phases 50-60 Hz			
Communication	Modbus TCP/IP or Modbus RTU (RS-485) via converter			
Display	7" TFT LCD color display			
Enclosure & Material	IP65, AISI 1008 Painted			
Sensor Module	G6111 PAH	G6120 Turbidity	G6121 Turbidity	G6130 pH and Temperature
Manufacturer	Green Instruments	ABB	ABB	MJK
Type	G6111 PAH	Series 4690; and Transmitter 4690 or AWT420	Series ATS430; and Transmitter AWT420	pHix Compact
Measuring Technique	UV Induced Fluorescence	90° IR Scattering		Electrode
Range	0-800 µg/l phenanthrene equivalence	0-400 NTU		0 - 14 pH units 0-50°C
Accuracy	Max ±5% of sensor range or Max ±5% of the nominal standard test concentration, which value is not less than 80% of the sensor range.	+/- 2 NTU		Max +/- 0.2 pH unit

Reference Documents:

Document Name	Document No.	Version	Date
G6200 Environment - Environmental Test Report	P21-0087-1	N/A	21-09-2021
Turbidity Transmitter AWT420 – Environmental Test report	P20-0184-2	N/A	20-04-2021
G6200 IP rating assessment	N/A	1.0	28-09-2021
G6200 Performance Test Plan	N/A	1.0	28-09-2021
G6200 Performance Test Report			09-12-2021
The additional Test report – PAH with turbidity compensation approved by ClassNK	N/A	1.2	10-09-2021
Component Layout – G6200 Water Monitoring System	11247	-	13-09-2021
Installation Layout – Water Monitoring System G6200	11146		13-09-2021
P&ID for G6200 Water Monitoring System	11182		12-08-2021
Electrical documentation of G6200 Water Monitoring System	11076		27-05-2021
G6200 User Manual	103864	1.0	03-2022
Turbidity Transmitter AWT420 – Marine Type Approval	LR21187327TA-01	-	02-06-2021
G6200 Flame Retardant Assessment	N/A	N/A	29-10-2021
G6200 Flame Retardant Test report	P21-0087-3	N/A	21-10-2021
G6200 SQAP - TAC		0.1	07-09-2021

RINA Services S.p.A.
Via Corsica, 12 - 16128 Genova
Tel +39 010 53851
Fax +39 010 5351000



TYPE APPROVAL CERTIFICATE

No. **MAC036022XP**

Enclosure - Page 2 of 2

G6200

Application Fields:

The G6200 Water Monitoring System may be used for the monitoring of water from exhaust gas cleaning system in accordance with IMO resolution MEPC.259(68) and MEPC.340(77).

Acceptance Conditions:

An acceptance of this product on board ships and other units classed by the RINA is subject to the satisfactory outcome of testing as per RINA Rules.

Remarks:

Installation requirements and manuals shall be observed as per MEPC.259(68) and MEPC.340(77).
Correct configuration and set up for each delivery to be tested during commissioning after installation.
Installation to be made in accordance with maker's specifications.

RINA Poland Plan Approval Centre
April 20, 2022

