



Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer	Green Instruments A/S
Address	Erhvervsparken 29, Brønderslev, 9700, Denmark
Type	Washwater Monitoring System
Description	Water Monitoring System (PAH, Turbidity, PH and Temperature)
Trade Name	G6200 Water Monitoring System
Application	Marine, offshore and industrial applications for use in environmental categorie ENV 2 as defined in Lloyd's Register's Type Approval System, Test Specification Number 1 - December 2021.
Specified Standard	MEPC.259(68) - 2015 Guidelines for exhaust gas cleaning - Adopted on 15. May 2015 - Chapter 10 "Washwater". MEPC.340(77) -2021 Guidelines for exhaust gas cleaning systems - Adopted on 26 November 2021 - Chapter 10.2 "Discharge water monitoring" IACS UR E10 (Rev8)
Ratings	Power Supply: 400 to 440 VAC / 50 to 60 Hz
Other Conditions	In order to fulfil the requirements of MEPC.259(68) Chapter 10.3 or MEPC.340(77) Chapter 10.4 additional equipment (e.g. data recording) has to be installed.

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This system will be installed together with an Emissions Abatement Plant which is not scope of this type approval certificate. The whole installation has to be object of general - or project related approval.

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document HPC2262015-22/TM and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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Appendix

DESCRIPTION

Main switchboard G6200 :

Including HMI (7" TFT LCD color display) and communication interface (Modbus TCP/IP, Modbus TCP/RTU converter (RS-485))
Firmware : 0.0.25

Sensor-module	G6111 PAH	G6120 Turbidity	G6121 Turbidity	G6130 pH and Temperature
Manufacturer	Green Instruments	ABB	ABB	MJK
Brand/Type	GI/ G6111 PAH	ABB/4690 series; AWT420 transmitter	ABB/ATS430 series; AWT420 transmitter	MJK/ pHix Compact
Measuring technique	UV Fluorescence	Nephelometry		Glass electrode
Range	0-800 µg/l PAHphe Configurable	0-400 NTU/FNU Configurable		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		±0.2 pH unit Fully temperature compensated