



NIPPON KAIJI KYOKAI

TYPE APPROVAL CERTIFICATE FOR AUTOMATIC DEVICES AND EQUIPMENT

Certificate No. TA19266M

This is to certify that the undernoted product(s) has/have been approved in accordance with the requirements specified in Chapter 1, Part 7 of “Guidance for the Approval and Type Approval of Materials and Equipment for Marine Use” and the relevant Society's Rules.

This certificate is issued to

Manufacturer: **Green Instruments A/S**
Place of Manufacturing: **Erhvervsparken 29, 9700 Broenderslev, Denmark**
Product description: **Water Monitoring System**
Model: **G6100 Water Monitoring System**

Approval No.: **18A002**
Valid until: **7 March 2023**

This certificate is subject to the conditions specified in the attached sheet(s).

Issued at Tokyo on 08 May 2019.

T. Shimada
General Manager
Machinery Department

Note: The manufacturer, if desired, is requested to apply to the Society for renewal prior to the expiration date.

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Attached sheet -1/2 to the Certificate No.TA19266M

Specification & documents:

1. Particulars: Power supply: 200 - 260 VAC (50 – 60 Hz)

2. Components and reference drawings:

Water Monitoring System (WM)

Component	Drawing No.
Cabinet WM	06735, 06763
Coupler and I/O	
PLC and HMI	
Power supply	

Sensor Modules

Component	Drawing No.
G6110 PAH	02313GI-PI
G6130 pH and Temperature	02313_02475_03548 _ED_J
G6120,G6121 Turbidity	06763_B

3. Documentation and Test Reports:

Type approval test of Wash Water Monitoring System (4P06867)

Test plan for TA application ClassNK (Version 2.5-Sep 2017)

Type approval testing (P18-0071)

- To be continued -

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Attached sheet -2/2 to the Certificate No. TA19266M

Test items & approval conditions:

1. Test items:

(Applied testing items are marked with X.)

ENVIRONMENTAL TESTS		Mark
External examination		X
Operation test and performance test		X
Electric power supply failure test		X
Power supply fluctuation test	Electric	X
	Pneumatic and Hydraulic	--
Insulation resistance test		X
High voltage test		X
Pressure test (Pneumatic and Hydraulic)		--
Dry heat test (Temperature 55°C × 16 hours)		X
Damp heat test		X
Vibration test (Acceleration ±0.7g × 2.5 hours, ±0.7g × 2.0 hours [※])		X
Inclination test		--
Cold test (Temperature 5°C × 16 hours, 5°C × 2hours [※])		X
Salt mist test		--
Electrostatic discharge immunity test		X
Radiated radio frequency immunity test		X
Conducted low frequency immunity test		X
Conducted high frequency immunity test		X
Burst / Fast transient immunity test		X
Surge immunity test		X
Radiated emission test		X
Conducted emission test		X
Flame retardant test		--

2. Approved condition:

(a) The product is not allowed to be installed in the bridge and on open decks.

(b) The mark(※) is applied to G6121 Turbidity Sensor and Analyzer.

- The End -