



NIPPON KAIJI KYOKAI

COPY

TYPE APPROVAL CERTIFICATE FOR AUTOMATIC DEVICES AND EQUIPMENT

Certificate No. TA23598M

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, DK-9700 Brønderslev Denmark
Product description:	Multi Gas Monitoring System
Model:	G7200
Approval No.:	23A029
Valid until:	20 November 2028

The details are described in the attached sheet(s).

Issued at Tokyo on 21 November 2023.



S. Oishi
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. TA23598M

Specification & documents:

1. Rating: Power supply: 230VAC - 50/60Hz

2. Components
 - Analyzer Modules : G7010, G7230, G7210

3. Drawings and Documentation:
 - User Manual (104677 dated July 2023)
 - System Description
 - P&ID (11296 dated 21-10-2021)
 - Technical Information, Wiring & Drawing information, Communication Connection Point Diagram, etc. (11350 dated 30-11-2021)
 - Installation Layout (11703 dated 2023-07-12)
 - Component Overview - 2 Stacks (11891 dated 2023-07-12)
 - Component Overview - 1 Stack (11950 dated 2023-07-06)
 - Arrangement Drawing Multi Gas Monitoring System (11956 dated 2023-07-12)
 - List of approved electronic component for G7200 Multi Gas Monitoring System (dated 13/07/2023)
 - G7200 Flame retardant assessment

4. Test Reports:
 - Test report - Performance test (dated 22 May 2023)
 - Test report (P23-0082-1 dated 2023-08-09)

- To be continued -

Test items & approval conditions:

1. Test items:

(Applied testing items are marked with X.)

ENVIRONMENTAL TESTS (IACS UR E10 Rev.8 basis)		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 × 1.5 hours)		X
Inclination test		--
Cold test (Temperature 5°C × 2 hours)		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. Approval condition:

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

- The End -