



NIPPON KAIJI KYOKAI

TYPE APPROVAL CERTIFICATE FOR AUTOMATIC DEVICES AND EQUIPMENT

Certificate No. TA19687M

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: **Changzhou Luo Pan Xing Analytical Tech Co, Ltd.**
Place of Manufacturing: **6th Floor, A 3 Building, Technology Venture Centre, 801
Changwu Middle Road, Changzhou, Jiangsu, 213164, China**
Product description: **Wash Water Monitoring System**
Model: **WWM-1000**

Approval No.: **19A051**
Valid until: **10 December 2024**

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

Issued at Tokyo on 11 December 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. TA19687M

Specification & documents:

- 1. Particulars: Voltage: AC100~240V
Frequency: 50/60Hz
Protection: IP54

2. Components and reference drawings:

Components	Drawing
Cabinet	LPX-WMS-E001 LPX-WMS-E002 LPX-WMS-E003 LPX-WMS-E004 LPX-WMS-M001 LPX-WMS-M002 LPX-WMS-M003 LPX-WMS-M004
Pretreatment device	
Diaphragm booster pump	
Exhaust valve	
Pressure gage	
Flow switch	
Cleaning pump	
PAH probe	
Turbidity probe	
pH probe	
Display	

3. Documentation and Test Reports:

Test report No.UL119920190918001

- To be continued -

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Attached sheet -2/2 to the Certificate No. TA19687M

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 × 1.5 hours)		X
Inclination test		X
Cold test (Temperature 5°C × 16 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		X

2. Approved condition:

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

- The End -