Certificate No: LR23390752TA
Issue Date: 07/10/2023
Expiry Date: 06/10/2028

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	**Zhenjiang SaierNico Automation Ltd.**
Address	Dingmao Economic Developing Zone, Zhenjiang, 212009, China
Type	Integrated Alarm, Monitoring and Control System
Description	SIAS-03 Integrated Alarm Monitoring Control System
Trade Name	SIAS-03
Application	Marine use in environmental categories ENV2 in the "General Power Distribution Zones "as defined in LR Type Approval Test Specification No.1 2021, where the test specification is applicable for the intended operation.
Specified Standard	Manufacture's specification
Ratings	Power supply: AC 220V 50/60Hz, DC 24V Composing the following modules: UPS: SP3K,5PX, 3KVA 220V, 50/60 Hz UPSBattery: 5PXEBM72RT2U, M2AL DC Filter: DNF211A10, DNF211A20 AC Filter:NF211B10, NF211B20 AC/DC converter: SDR-480-24 Bridge cells module: CP DM 20 Insulation tester: YT-ZBKΩ DC 24V

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Ning Guan

Electrical & Control - Senior Specialist to Lloyd's Register Classification Society (China) Co., Ltd.

12th Floor, Chong Hing Finance Centre, No. 288
Nanjing West Road, Shanghai, 200003, China

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PLC CPU PM1800
PROFIBUS module: FP1830
Display:YT-190CQ, YT-220CQ, YT-270CQ
Operation station: HP Z240 SFF
Network switch: MKI-2528, MKI-7626
Extend alarm panel: F007, FE4070CE, F010, FE4097C, FE4150X
DZT: S8039-08
MTTR: S8029-10
16 port 12bit analogue input module: S8010-16
16 port 16bit analogue input module: S8011-16
8 RTD input module: S8015-08
8 analogue output module: S8013-08
32 digital input/output module: S8002-32
32 digital input module: S8000-32
24 digital output module: S8003-24
8 counter module: S8004-08
3 digital valve control module: S1002-03
3 analogue valve control module: S1012-03
PLC CPU:PM571-ETH, PM582
CANOPEN Module: CM578-CN
PLC: S7-1200
DPMASTER station: CM1243-5
Buzzer: AD17-SML/0.8W Dc24V-R
Metal keyboard & track ball: SPC412AG-B10-A01
AC Relay: DRM570730L
DC relay: DRM570024L

Other Conditions

1. The system is to be in compliance with the applicable Lloyd's Register Rules and Regulations of Ships and is subject to plan approval being carried out on individual cases.
2. The software version No. SIAS-V3.0.x against which performance tests carried out.

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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 Classification Society (China) Co., Ltd. of any modification or changes to the equipment in order to obtain a valid Certificate.

Previous Version: **18/80071**

The Design Appraisal Document LR23390752TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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