Certificate No: LR26178219TA
Issue Date: 23/04/2026
Expiry Date: 22/04/2031

# 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** | **Honeywell Integrated Technology (China) Co.,Ltd** |
| **Address** | 8F Building 1, No 555 Huan Ke Road China, Shanghai Pilot Free Trade Zone, Shanghai, China |
| **Place of Production** | WELCO TECHNOLOGY (SUZHOU) LTD<br>198 Xinglong Street, Suzhou Industrial Park, Suzhou City, Jiangsu, China |
| **Place of Production** | SFO Technologies Pvt. Ltd.<br>Electronics Division, Plot No. 36/37, Cochin Special Economic Zone, Kakkanad, Kochi, 682037, India |
| **Type** | Monitoring and Control System |
| **Description** | Monitoring and Control System |
| **Trade Name** | ControlEdge 900 Platform |
| **Application** | Marine applications for use in environmental categories ENV1 and ENV2 in the "General Power Distribution Zones" as defined in LR Type Approval System Test Specification No. 1 July 2024. |
| **Specified Standard** | Manufacture's specification<br>LR Type Approval System Test Specification No. 1-2024 |

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**Ning Guan**

Electrical & Control Technical Manager - Southeast Asia & Great China to Lloyd's Register Classification Society (China) Co.,

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IACS Unified Requirement E27 Rev.1

**Ratings**

**Power Supply**: AC 120/240V, 50/60HZ, DC 24 V
**Racks**:
Part No.: Description:
900RR0-0200 Redundant CPM Rack (Assembly)
900R04-0200 4 I/O Slot Rack -Non-Redundant Power (Assembly)
900R08-0200 8 I/O Slot Rack -Non-Redundant Power (Assembly)
900R12-0200 12 I/O Slot Rack -Non-Redundant Power (Assembly)
900R08R-0200 8 I/O Slot Rack -Redundant Power (Assembly)
900R12R-0200 12 I/O Slot Rack -Redundant Power (Assembly)
900R04-0300 4 I/O Slot Rack –Non-Redundant Power (Assembly), EXT TEMP-
900R08-0300 8 I/O Slot Rack –Non-Redundant Power (Assembly), EXT TEMP
900R08R-0300 8 I/O Slot Rack -Redundant Power (Assembly), EXT TEMP
900R12-0300 12 I/O Slot Rack –Non-Redundant Power (Assembly), EXT TEMP
900R12R-0300 12 I/O Slot Rack -Redundant Power (Assembly), EXT TEMP
900RR0-0300 Redundant Controller rack (Assembly), Ext Temp
**Control Processor Module**
Part No.: Description:
900CP1-0200 CPM, ControlEdge 900
900CP2-0100 CPM, ControlEdge 900
900UOC-0100 CPM, ControlEdge 900
900CN9-0100 CPM, ControlEdge 900
**Expansion Processor Module**
Part No.: Description:
900SP1-0200 EPM, ControlEdge 900
900SP1-0300 Expansion Processor Module (EPM) EXT TEMP
**IO Modules**
Analog input
Part No.: Description:
900A01-0202 Universal AI-RTD, TC, V, 8 ch
900A16-0103 Analog Input hi level, 16 ch
Analog output
Part No.: Description:

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900B01-0301 Analog Output, 0 to 20mA, 4 ch
900B08-0202 Analog Outputs 0 to 20mA (8 channel, 5 modules/rack)
Digital input
Part No.: Description:
900G01-0202 Digital Input, Contact type, 16 ch
900G03-0202 Digital Input120/240 VAC, 16 Ch
900G04-0101 Digital Input, 120/240 VAC-125VDC, (16 channel Isolated)
900G32-0101 Digital Input24VDC, 32Ch
900G32-0301 Digital Input, 24 VDC, 32 Channel, EXT TEMP
Digital output
Part No.: Description:
900H01-0202 Digital Output - Relay, 8 Ch
900H03-0202 Digital Output - 120/240 VAC, 8 Ch
900H32-0102 Digital Output - 24VDC, 32 Ch
900H32-0302 Digital Output, 24 VDC 32 Channel, EXT TEMP
Pulse/Freq input
Part No.: 900K01-0201;
Description: Pulse/Freq Input, 4ch Universal IO
Part No.: 900U01-0100;
Description: Universal IO Module
**Communication Interface Modules**
Part No.: 900ES1-0100;
Description: Communication Interface Module, RS485/RS232 4 port
**Power Supply**
Part No.: Description:
900P01-0301 Power Supply 120/240VAC, 60W
900P24-0301 Power Supply 24VDC, 60W
900PSM-0200 Power Status Module, Redundant
900P01–0701 Power Supply AC-DC-NON SIL- 41W Ext TEMP
900P24-0501 Power Supply 24VDC, 58W
900P01-0501 Power Supply 120/240VAC, 60W- Non-SIL
900P01-0801 Power Supply AC-DC- -41W Ext TEMP
900P01-0601 Power Supply 120/240VAC, 60W- SIL

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# Type Approval Certificate

900P24-0601 Power Supply 24Vdc,60W – SIL

**Other Conditions**

1. The system is to be incompliance with the applicable Lloyd's Register Rules and Regulations of Ships when installed on board specific ship and is subject to plan approval for each individual case.
2. Examination of software (Version R161) aspects is restricted to functional operation as demonstrated in the Performance test.
3. When emergency stop function or safety critical functions are implemented, the software is to satisfy the requirements of LR's Software Conformity Assessment System -Assessment Module GEN1 (1994). Alternative proposals providing an equivalent level of system integrity will be subject to special consideration, e.g. fully independent hard-wired back-up system, redundancy with design diversity, etc.
4. Compliance with above listed specified standard requirements covered required security capabilities with network communication to untrusted networks. Any wireless communication or remote connection are excluded.
5. If the specified standards are amended during the validity of this certificate, the product is to be re-approved prior to it being supplied to vessels to which the amended standards apply.
6. System certificate is required and shall accompany the system upon delivery.

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:** **LR2003627TA**

The Design Appraisal Document LR26178219TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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