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Certificate No: LR2114159TA Issue Date: 18/02/2021 Expiry Date: 03/12/2025

## **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 NORIS Automation GmbH

**Address** Friedrich-Barnewitz-Strasse 10, Rostock, 18109, Germany

**Type** Control Systems

**Description** Remote Control Panel System

Consists of the following components: MP-12L12B Master Control Panel

MP-TU-23L9B Master Control Panel Transfer Unit

SP-6L Extension Panel SP-4B Extension Panel SP-3L3B Extension Panel SP-6L6B Extension Panel

SP-12L12B-LS4 Extension Panel with integrated control lever LS4 SP-12L12B-LT4 Extension Panel with integrated control lever LT4 SP-12L12B-LA4 Extension Panel with integrated control lever LA4

SP-TU-7L2B Extension Panel Transfer Unit

**Trade Name** NORISYS 4 MP, NORISYS 4 SP

**Application** Marine applications for use in environmental categories ENV1, ENV2, ENV3 and

ENV5 as defined in Lloyd's Register's Type Approval System, Test Specification

Number 1 – 2002.

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Senior Specialist to Lloyd's Register EMEA A member of the Lloyd's Register group

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## **Type Approval Certificate**

**Specified Standard** Manufacturer's specification

IACS unified requirements E10 (Rev.7 Oct 2018)

Ratings Supply voltage: 24 VDC

Mounting: Desk Cut Out
Protection Class: IP56 on front side

The NORISYS 4 Remote Control Panel System consists of two groups of components – master devices (MP) and I/O processing extensions (SP). The complete device series as listed above is designed as input/output modules without any process related function code, which provides an application

independent use.

**Additional Tests** Mechanical shock test: 15g, 11ms

Number of load planes:  $6 (\pm X, \pm Y \text{ and } \pm Z)$ 

Number of shocks per load plane: 3

**Other Conditions** Final functional arrangements are to comply with appropriate Lloyd's Register

Rules and will be subject of the Plan Approval process, if applicable.

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 EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

Previous Version: 15/20138

The Design Appraisal Document HTS/ETS 40942-21/TW and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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