Certificate No: LR2403139TA
Issue Date: 29/01/2024
Expiry Date: 01/09/2027

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	**Smart Automation AS**
Address	Hollundsdalen 5, Bremnes, 5430, Norway
Type	Control Systems
Description	Alarm, monitoring and control system including Dead Man and Engineers' alarm system Bridge group alarm presentation Pump control –standby start and black-out restart Tank level monitoring Reporting and Data logging Types SMART®Chief II: Alarm, monitoring and control system SEA-2000 Alarm: Distributed Alarm System SEA-2000 IAS: Distributed Integrated Alarm and Control System STI-PAN-1: Accommodation Enunciators Panels Software Version: AlarmView Version: 1.1.xx Spider Version: 1.2.xx Watchdog Version: 4.1.x
Trade Name	SMART® Chief II, SEA-2000, SEA-2000 IAS and STI-PAN-1
Application	Marine and Offshore application for the use in environmental categories ENV1 and ENV2 as defined in Lloyd's Register Type Approval System, Test

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Specification Number 1 – 2002.

Specified Standard	EN60945:2002 IACS unified requirements E10 (Rev.8 Feb 2021)
Additional Tests	Low Temperature Test (-15°C/16h) for STI-PAN-1 & STI-TC4 Compass Safe Distance Test (Standard(120cm), Steering(75cm)) for STI-PAN-1 Degrees of Protection Test IP20(front) for STI-PAN-1
Other Conditions	Final functional arrangements are to comply with appropriate Lloyd's Register Rules and will be subject of the Plan Approval process.

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: 14/20004 (E1)

The Design Appraisal Document HPC1762045-24/TW and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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