Certificate No: LR20100021TA
Issue Date: 21/12/2020
Expiry Date: 15/02/2025

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	**WÄRTSILÄ APSS SRL**		
Address	Via San. Sebastiano, 16, Diano D'Alba (Cn), 12055, Italy		
Type	Programmable logic controller & I/O Modules		
Description	Card based on microcontroller technology, designed for the local and remote control of starters.		
Trade Name	Smart MCU3		
Application	Marine use in environmental categories ENV1, ENV2 and ENV3 as described in Lloyd's Register of Shipping Test Specification No. 1: 2019.		
Specified Standard	Manufacturer's Technical Specification		
Ratings	Power supply:	operative voltage:	230 Vac ±20%
		consumption: ≤ 20 W	
		short circuit protection: fuse for power supply and current limiters for each output	
	Digital inputs:	operative voltage:	24 Vdc internal supply
	Analog inputs:	range:	4 ÷ 20 mA 0 ÷ 10 V
		Operative voltage:	0 ÷ 32 Vdc
		Input impedance:	250 Ω

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Maurizio Crucil

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

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Digital outputs:	types:	n.5 relay, free contact n.4 solid state optoMOS relay with supply n.7 solid state optoMOS relay free contact	
	Rating voltages:		250 Vac – 24 Vdc – 250 Vac
	Max. load current:		6A – 200 mA – 200 mA
Analog output:	range:		4 ÷ 20 mA

Additional Tests Static Inclination Test (Lloyd's Register Type Approval System - Test Specification No. 1: 2019 – Section 10)

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: Certificate N° 15/00010 (E1), 15/00010 (E2)

The Design Appraisal Document LR20100021DA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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