Certificate No: LR21163197TA
Issue Date: 03/07/2021
Expiry Date: 02/07/2026

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	**Kontron Europe GmbH**
Address	Lise-Meitner-Straße 3-5, Augsburg, 86156, Germany
Type	Control Units
Description	Local Display Unit used in Wärtsilä engine
Trade Name	LDU-30
Application	Marine, offshore and industrial application for the use in environmental categories ENV1, ENV2, ENV3 and ENV4 as defined in Lloyd's Register Type Approval System, Testspecification Number 1 -2014. Application is only use for "General Power Distribution Zones".
Specified Standard	Manufacurer's specification IACS UR E10 Rev.7
Additional Tests	Needle Flame Test (IEC 60695-11-5) Low temperature (-40°C for 2 Hrs) Enclosure test IP66 Storage Test (-40°C to 80°C, 6 cycles in 48 hrs)

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Thomas Milow

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

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

Previous Version: 16/20069

The Design Appraisal Document HTS/ETS 33860-16 Issue 1 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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