Certificate No: LR21244576TA
Issue Date: 18/08/2021
Expiry Date: 02/05/2026

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	**Fosstech AS**
Address	Borgeskogen 7, Stokke, 3160, Norway
Place of Production	Fosstech AS Borgeskogen 7, Stokke, 3160, Norway
Type	Level Alarm System
Description	High Level and Overfill Alarm System OAS-5.5 consisting of: Cabinet with alarm panel, including the main components: - Common alarm-processing unit: CU2 - Alarm unit: OAU-01B - Zener barrier unit: Ex1-W00 - Power supply: ML.70.100 / CD5.051 - Relay unit: PLC-RSP-24VDC - Rectifying bridges: GBPC3510 Level switches (float type) - HL8903 / HL8903A (single level) - HHL8903 / HHL8903A (dual level) - HHHL8903 / HHHL8903A (triple level)
Trade Name	OAS-5.5

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Matthias Karg

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

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Application	Marine, Offshore and Industrial applications for use in environmental categories ENV1, ENV2 and ENV3 in general power distribution zones as defined in Lloyd's Register Type Approval System, Test Specification Number 1 – March 2020.
Specified Standard	Manufacturer's specification IACS E10 Rev. 8 / 2021
Ratings	Power supplies: 230 VAC and 24 VDC OAS-5 software version: 1.10
Additional Tests	Low temperature test: -16 °C / 16 h
Other Conditions	Systems comprising the components described above are subject to a separate plan appraisal according to applicable Rules and Regulations when installed on LR classed vessels. Specific Conditions of Use as stated in applicable Ex-certificates shall be observed when installed in hazardous areas. The Ex-certification does not form part of this certificate. Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations. 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.

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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.

The Design Appraisal Document HTS/ETS 41389-21/MK and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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