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Certificate No: LR2004282TA Issue Date: 18/06/2020 Expiry Date: 31/05/2024

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 Autronica Fire & Security AS

Address Bromstadvegen 59, Trondheim, 7047, Norway

Type Fire Detection Alarm Systems

Description Sounders and strobes for fire detection and alarm systems AutroSafe 4 and

AutroPrime 2

Trade Name BBL-100, BBL-100/IP, BBR-130, BBQ-130, BBQ-230, BBQ-230/IP, BBR-230,

BBR-230/IP

Application Marine, offshore and industrial applications suitable for use in environmental

categories ENV1, ENV2 and ENV 3 as defined in Lloyd's Register's Type

Approval System, Test Specification Number 1 – March 2019

Specified Standard IEC 60092-504: 2016

EN 54-3: 2014 EN 54-17: 2006

EN 54-23: 2010(BBQ-230/BBQ 230/IP)

Additional Tests Low temperature test: -15°C/16 hrs

Flame retardant

Acoustic noise and signals Compass safe distance

Thorsten Wolff

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Degree of protection: IP22: BBR-130, BBQ-130

IP32C: BBL-100

IP42: BBR-230, BBQ-230

IP44D: BBR 230/IP, BBQ-230/IP IP54: BBR 230/IP, BBQ-230/IP

IP66: BBL-100/IP

With cables / glands where specified

Other Conditions Systems comprising the components

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.

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 No. HTS/ETS 39459 -20 AHB/TW/AC and its supplementary Type Approval Terms and Conditions form part of this Certificate.



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