Certificate No: LR23243752TA
Issue Date: 05/02/2024
Expiry Date: 04/02/2029

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	**Bender GmbH & Co. KG**
Address	Londorfer Str. 65, Gruenberg, 35305, Germany
Place of Production	Bender GmbH & Co. KG Londorfer Str. 65, Gruenberg, 35305, Germany
Type	Monitoring System
Description	LINETRAXX® RCMS150 series - Residual current monitor type B with integrated measuring current transformers for earthed AC/DC systems (TN and TT systems) RCMS150-W-x x Variants Blank BMS Interface 01 Modbus RTU Interface
Trade Name	RCMS150
Application	Marine, Offshore and Industrial applications for use in environmental categories ENV1, ENV2 and ENV3, as defined in Lloyd's Register Type Approval System, Test Specification Number 1 – December 2021. Suitable for general power distributions zones only.

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Matthias Karg

Electrical & Control - Specialist to Lloyd's Register EMEA
A member of the Lloyd's Register group

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

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Specified Standard

EN 61000-6-2: 2019
EN 61000-6-3: 2021
EN 61010-1: 2010 +A1: 2019 + A1: 2019/AC: 2019
EN IEC 62020-1: 2021
EN IEC 63000: 2018
IACS UR E10 Rev. 8: 2021

Ratings

Nominal supply voltage Us: 24 VDC (21,8 – 26,1 V)
Response values:
Residual current $I_{\Delta n2}$ (RMS): 10…300 mA
Residual current $I_{\Delta n2}$ (DC): 10…300 mA
No. of channels: 6

Software versions:
IU: D0455 / V1.xx (BMS Interface)
IU: D0657 / V1.xx (Modbus RTU Interface)
MU: D0489 / V1.xx

Additional Tests

Low temperature (-25 °C / 16 h)

Other Conditions

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.

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 HPC2162068-24/MK and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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