Certificate No: LR25323323TA
Issue Date: 21/10/2025
Expiry Date: 20/10/2030

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	**Vega Grieshaber KG**
Address	Am Hohenstein 113, Schiltach, 77761, Germany
Place of Production	Vega Grieshaber KG Am Hohenstein 113, Schiltach, 77761, Germany
Place of Production	VEGA India Level and Pressure Measurement Pvt. Ltd. Plot No. 1, Gat No. 181 Village-Phulgon, Tal. Haveli, PUNE, 412216, India
Place of Production	VEGA Americas, Inc. 3877 Mason Research Parkway, Mason, OH, 45036, United States
Type	Transmitters/Transducers
Description	Radar sensor for continuous level measurement
Trade Name	VEGAPULS C 21, VEGAPULS C 22 and VEGAPULS C 23
Application	Marine, offshore and industrial applications for use in environmental categories ENV1, ENV2, ENV3 and ENV5 as defined in Lloyd's Register Type Approval System, Test Specification Number 1 - July 2024.

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Ashwinikumar Mhamal

Electrical & Control Technical Manager - Africa, Middle East & India to Lloyd's Register Marine and Offshore India LLP

Units 1702-1704, 17th Floor (Level-13), Building Q2, Aurum Q Parc; Gen 4/1 TTC, Thane-Belapur Road, Ghansoli, Navi Mumbai, 400710, India

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Specified Standard

Manufacturer's specification
IACS unified requirements E10 (Rev.9 Aug 2023)

Ratings

Rated supply voltage:	24 VDC
Output:	4 … 20 mA/HART
Ambient temperature range:	-40 °C … +80 °C (*)
Process temperature:	-40 °C …+80 °C
Measuring range:	15 m (C 21, C 22) 30 m (C 23)
Process fitting (VEGAPULS C 21 /C 22):	G1 ½ ", 1 ½ "NPT or R1 ½"
Process fitting (VEGAPULS C 23):	G1 ", 1"NPT or R1"
Process pressure:	-1 … +3 bar

(*) for the devices with an Ex-approval (Ex mb + Ex t) the ambient temperature range is -20°C … +80 °C.

Additional Tests

Dry heat (+80°C/16h)
Low temperature (-40°C/16h)

Other Conditions

Ratings for application in hazardous areas are to be obtained from the applicable Ex Certificates.
Power supply via suitable VEGA device or other device of an approved type.

Type Approval does not eliminate the need (as required by LR Rules) the requirements for further review or for the product to be further inspected and/or surveyed to be installed in ships classed or intended to be classed with LR

If the specified standards are amended during the validity of this certificate, the product is to be reapproved 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 Marine and Offshore India LLP of any modification or changes to the equipment in order to obtain a valid Certificate.

Previous Version: LR2023818TA

The Design Appraisal Document TSO-25-041993-E-01 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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