

## TYPE APPROVAL CERTIFICATE

Certificate No. : HMB02586-OD004 Initial Approval : 19th October, 2015

**Product** : Oil Mist Detection System

Manufacturer : Schaller Automation Industrielle Automationstechnik GmbH & Co. KG

Industriering 14, D-66440 Blieskastel, Germany

Product Description: Type: VISATRON VN 301plus / VN 301plusEX

" See Appendix 1 "

Approval Condition: "See Appendix 1"

**THIS IS TO CERTIFY** that the above-mentioned product has been approved in accordance with the relevant requirement of this Society's Rules and / or of the recognized standards as follows.

Pt. 5, Ch. 2, Art. 203 & Pt. 6, Ch. 2, Art. 301 of the Rules for Classification, Steel Ships and IACS UR M67 Rev.2

This Certificate is valid until 18th October, 2025 Issued at Busan, Korea on 5th November, 2020



This certificate is signed electronically in accordance with IMO FAL.5/Circ.39/Rev.2. Validation and authentication of the certificate can be confirmed from "http://e-cert.krs.co.kr" by using the tracking No (ME20038259708) and certificate No.(HMB02586 -OD004).



KOREAN REGISTER

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General Manager of Marine & Ocean Equipment Team

Note: 1. This certificate will be valid subject to complying with the approval conditions described on the certificate and/or on the Rules of this Society.

- $2. \ This \ certificate \ will be invalid from \ the \ expiry \ date \ a forementioned \ unless \ the \ extension \ or \ renewal \ has been \ granted \ to \ the \ applicant \ or \ the \ manufacturer.$
- 3. Any significant modifications or changes in design or construction to the above product without approval from this Society will render this certificate invalid.
- 4. Should the specified rules, regulations or standards be amended during the validity of this certificate, the product is to be re-approved by this Society in accordance with the requirements as amended.

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### Appendix 1

# **Product Description and/or Approval Condition**

HMB02586-OD004 **Date of Issue:** 5th November, 2020 Certificate No:

#### A. Product Description ;

- 1. Functional Overview: protects large diesel engines against oil mist explosion.

- 1) Power Supply : 24V DC 2) Relay Outputs : 2 x 'Alarm', 1 x 'Ready', 1 x 'Pre-Alarm' 3) Communication : RS485
- 4) Sensor Types
- VN301plus Sensor Unit, vertical connection VN301plus Sensor Unit, horizontal connection
- VN301plusEX Sensor Unit, vertical connection
  VN301plusEX Sensor Unit, horizontal connection
  Degree of Protection: IP65
- 6) Software version: 1.18 (Central Unit), 1.16 (Sensor)
- Documentation ;
- 1) Operation Manual Version 1.4 dated 01/2020
- 2) Drawing No. DC180403 02, DC18040 02, DC180405 02
- 3) Test Reports No. 1-5141/12-01-02~03, 1-4083/11-01-02~05 by CETECOM
  - GSSO report (15.03.2012)
- Function test report according to IACS UR M67 Rev. 2 by Schaller (2017.03.22) SGS TUV test report, Project No. 79917\_05122019\_VN301 plus (06.12.2019) 4) Ex-proof Certificate No. BVS 11 ATEX E 175

### B. Approval Condition;

- 1. This approval is granted on the basis of the approved documentation and the test reports (IACS UR E10 Rev. 7).
- 2. The manufacturer should inform this Society of all kinds of revisions of the equipment including software. If the changes are recognized to affect functionality of the approved equipment, type test to confirm the reliability of the revised equipment may be performed in the presence of our surveyor.
- 3. The product or packing is to be marked with the manufacturer's name and type designation on a suitable position.
- 4. Explosion-proof certification by a notified/recognized Certification Body is not covered by this certificate. Ratings and Special Condition for Safe Use in hazardous areas are to be obtained from the relevant valid Ex-Certificate.
- 5. Individual Product Certification is not required.

< End of Certificate >

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