



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 Type VN 301 plus, VN 301 plus EX

" 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 and entered in the "List of Approved Manufacturers and Type Approved Equipment".

Pt. 5, Ch. 2, Art. 203 & Pt. 6, Ch. 2, Art. 301 of the Rules for Classification, Steel Ships and IACS UR M67 Corr.1, Oct. 2007.

This Certificate is valid until 18th October, 2020.

Issued at Busan, Korea on 19th October, 2015.


KOREAN REGISTER OF SHIPPING

General Manager of
Marine & Ocean Equipment Team

Note :1 : The approval will be automatically suspended and the Certificate become invalid from the expiry date of the Certificate in the event that the extension has not been granted or the renewal of the Certificate is not underway.

2 : The manufacturer should notify this Society of any modification or changes that may affect the validity of this Certificate.

Appendix 1

Product Description and/or Approval Condition

Certificate No : HMB02586-OD004

Date of Issue : 19th October, 2015.

Product Descriptions :

1. Functional Overview : protects large diesel engines against oil mist explosion.
2. Ratings
 - 1) Power Supply
 - Operating Voltage : 24 V DC (18 ~ 31 V DC)
 - Current Consumption : Max. 3 A
 - 2) System of Protection : IP 65
 - 3) Operating Temperature : 5 ~ 70 °C
 - 4) Storage Temperature : -25 ~ +85 °C
 - 5) Air Consumption : 100 L/h per Sensor Unit
 - 6) Software version : 1.12 (for Central Unit)
3. Documentation :
 - 1) Drawings : DC180403 02, DC18040 02, DC180405 02
 - 2) Test Reports : 1-5141/12-01-02~03, 1-4083/11-01-02~05 by CETECOM,
GSSO report (15.03.2012)
 - 3) Others : Ex-proof cert. (BVS 11 ATEX E 175), Operation Manual (Version 1.1)

Approval Condition :

1. This approval is granted on the basis of the test reports and approved documentation.
2. The manufacturer should inform this Society of all kinds of revisions of the approved softwares. If the changes are recognized to affect functionality of the approved product, Type Test to confirm the reliability of the revised software 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. Individual Product Certification is not required.

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