



TYPE APPROVAL CERTIFICATE

형식승인증서

Certificate No. : HMB02586-OD003 **Date of Approval** : 15th December, 2008.
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 115/87 plus, VN 116/87 plus, VN 215/87 plus

" See Appendix 1 "

- Approval Condition** :
1. This approval is granted on the basis of Test Report Nos. 4-2018-1-2/06, 3-5679-1-1/08 & 4-2912-01-01/07 by CETECOM, GSSO report, Operation Manual (Part-No. 11078, Version 1.5) and Software listing V5.02.
 2. The product or packing is to be marked with manufacturer name and type designation on a suitable position.
 3. Individual Product Certification is not required.

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. 9, Ch. 3, Art. 203 of the Rules for Classification, Steel Ships, IMO MSC/Circ.1086 & IACS UR M67(Corr. 1, Oct. 2007)

This Certificate is valid until 14th December, 2013.

Issued at Daejeon, Korea on 15th December, 2008.



한국선급
KOREAN REGISTER OF SHIPPING

(Signature)

Lee Woon-ho

General Manager of
Materials and 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 is not under attendance for completion of the renewal survey.
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

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Product Descriptions :

1. Power Supply
 - 1) Operating Voltage : 24 V DC \pm 25 %
 - 2) Current Consumption : Max. 2 A
 - 3) Fuse : 2 A semi time lag
2. System of Protection : IP 54
3. Operating Range : 0 ~ 70 °C
4. Storage Temperature : -25 °C to +85 °C
5. Max. Air Consumption : 1.0 m³/h at 0.5 bar
6. Oil mist detector protects large diesel engines of all applications from heavy consequential damage as a result of overheating.
7. Intended for
 - 1) VN 115/87 plus
 - Basic design, suitable for the monitoring of trunk piston diesel engines with in-line and V cylinder arrangements, running at medium and high speed.
 - In case of a high oil mist generation, damage detection via a header pipe sampling system without localization of damage point.
 - 2) VN 116/87 plus
 - Design suitable for the monitoring of trunk piston diesel engines with in-line and V cylinder arrangements, running at medium and high speed.
 - In case of a high oil mist generation, damage detection via a header pipe sampling system. Indication of the engine side containing the source of oil mist (left or right side of engine)
 - Pipe sampling system is the same as in the VN 115. If a localization of occurring bearing damage is requested, the replacement of a VN 115 against a VN 116 can be easily executed.
 - 3) VN 215/87 plus
 - Design suitable for the monitoring of trunk piston and crosshead engines running at medium and low speed.
 - Damage detection via an individual compartment suction pipe system, with indication of compartment containing the source of oil mist.
8. Approved Drawings :
 - DC0500073 02, DC070056 02, DC070023 02, 21012340. sch, 210145,
 - 210651 ~ 210653, 210955(5/5), 210956(4/12 ~ 12/12), 210957(4/10 ~ 10/10)

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