



## TYPE APPROVAL CERTIFICATE

**Certificate No.** : HMB02586-OD002 **Initial Approval** : 19th February, 1998  
**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 115/93, VN 116/93, VN 215/93

" See Appendix 1 "

**Approval Condition** : 1. This approval is granted on the basis of Test Report nos. 022a194 & 4-1055-1-1/03 by CETECOM GmbH and 03479.103.94 by Deutsche Aerospace AG & GSSO Test Reports carried out on 21st ~ 22nd Feb., 2007 and Function test report IACS UR M67 Rev.2 by Schaller.  
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. 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 February, 2023

Issued at Busan, Korea on 9th April, 2018



**KOREAN REGISTER OF SHIPPING**

*Jungwon. Ki*

**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 aforementioned 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.*

## Appendix 1

# Product Description and/or Approval Condition

Certificate No : HMB02586-OD002

Date of Issue :9th April, 2018

Product Descriptions :

### 1. Product Specification

- 1) Power Supply : 24V DC, Max. 3A
- 2) Relay Outputs : 2 x 'Alarm', 1 x 'Ready', 1 x 'Pre-Alarm'
- 3) Communication : RS485
- 4) Degree of Protection : IP44

### 2. Intended for

#### 1) VN 115/93

- Basic design, suitable for the monitoring of trunk piston diesel engines with in-line and V cylinder arrangements, running at medium and high speed.
- Damage detection through a header pipe sampling system without localization of the point of damage.

#### 2) VN 116/93

- Design with a higher sensitivity, suitable for the monitoring of trunk piston diesel engines with in-line and V cylinder arrangements, running at medium and high speed.
- Damage detection through a header pipe sampling system with a display of the crankcase compartment half(left or right side of the position of the detector) in which overheating damage has arisen.
- The header pipe sampling system is same as in the VN 115/93, so the VN 116/93 can replace the VN 115/93 without modification of the suction system if localization of damage is called for.

#### 3) VN 215/93

- Device with the highest sensitivity, suitable for the monitoring of large four stroke and crosshead engines running at medium and slow speed.
- Damage selection through the individual compartment suction piping system, with display of the compartment with the overheating damage.

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