

# Type Approval Certificate



[ Oil Mist Detectors ]

**Initial Approval** 19 February 1998

**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** “ 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 18 February 2028

Issued at Busan, Korea on 5 April 2023



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(ME23013833739) and certificate No.(HMB02586-OD002).



**KOREAN REGISTER**

*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.

## Product Description and/or Approval Condition

Date of Issue : 5 April 2023

### A. 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 the 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.

### B. Approval Condition :

1. This approval is granted on the basis of Test Report nos. 022a194 & 4-1055-1-1/03 by CETECOM GmbH, 03479.103.94 by Deutsche Aerospace AG & GSSO, 79917\_05122019\_VN93 by SGS-TUV Saarland Forster GmbH and Fnction test report IACS UR M67 Rev.2 by Schaller (IACS UR E10 Rev.7).
2. Degree of protection is to be complied with Rule Pt.6 Ch.1 Sec.2 201.2. (5).
3. The product or packing is to be marked with the manufacturer name and type designation on a suitable position.
4. Individual Product Certification is not required.

< End of Certificate >