



# Type Approval Certificate

[ Oil Mist Detectors ]

**Initial Approval** 15 December 2008

**Manufacturer** Schaller Automation Industrielle Automationstechnik GmbH & Co. KG  
 Industriering 14, D-66440 Blieskastel, Germany

**Product Description** Type : VISATRON Type VN 115/87plus, VN 115/87plus EX,  
 VN 116/87plus, VN 215/87plus

“ 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 1 April 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(ME23013478741) and certificate No.(HMB02586-OD003).



**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) Operating Voltage : 24V DC  $\pm$  25%
- 2) Current Consumption : Max. 2A
- 3) Fuse : 2A semi time lag
- 4) System of Protection : IP 54
- 5) Operating Temperature : 0 ~ 70°C
- 6) Ex-proof Type : II (2G) [Ex op is IIB T4 Gb] for VN115/87plus EX

#### 2. Intended for

- 1) VN 115/87plus
  - 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 116/87plus
  - 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 in requested, the replacement of a VN 115 against a VN 116 can be easily executed.
- 3) VN 215/87plus
  - 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.

#### 3. Documentation

- 1) Documents & Drawings
  - Operation Manual (Part No. 11078, Version 2.4) dated 03/2017
  - Operation Manual (Part No. 180081, Version 1.3) dated 06/2016
  - Operation Manual (Part No. 180062, Version 2.5) Page 78~82 dated 08/2017
  - Software Release Note FB 8. 2\_27\_V02
  - DC0500073\_02, DC070056\_02, DC070023\_02, 21012340.sch, 210145, 210651 ~ 210653, 210955(5/5), 210956(4/12 ~ 12/12), 210957(4/10 ~ 10/10), DC180164\_02, 050073\_02, DC270736\_02, DC270440\_02
- 2) Test Reports
  - CETECOM Test Report No. 4-2018-1-2/06 dated 2006-05-18
  - CETECOM Test Report No. 3-5679-1-1/08 dated 2008-10-01
  - CETECOM Test Report No. 4-2912-01-01/07 dated 2008-01-28
  - CETECOM Test Report No. 1-8082/14-01-03 dated 28.07.2014
  - CETECOM Test Report No. 1-8082/14-01-06 dated 10.09.2014
  - CETECOM Test Report No. 1-8082/14-01-04 dated 06.10.2014
  - CETECOM Test Report No. 1-8082/14-01-05-A dated 24.09.2014
  - CETECOM Test Report No. 1-8082/14-01-05-B dated 08.12.2014
  - GSSO Test Report according to IACS UR M67 dated 2007, Feb.
  - OMD Function Test (M67) dated 09.09.2015
  - OMD Function Test (M67 Rev.2) dated 2017-01-10
  - OMD Function Test (M67 Rev.2) dated 2017-08-07
  - SGS-TUV Saarland Forster Test Report No. 79917\_05122019\_VN87plus dated 06.12.2019
- 3) Ex-proof Certificate
  - IBEU14ATEX1153 dated 05.08.2014

### B. Approval Condition :

1. This approval is granted on the basis of the test reports and the approved documentation (IACS UR E10 Rev. 7).

## Product Description and/or Approval Condition

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Date of Issue : 5 April 2023

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.
5. 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.

< End of Certificate >

