



## Confirmation of Product Type Approval

**Company Name:** SCHALLER AUTOMATION GMBH & CO. KG

**Address:** INDUSTRIERING 14 Germany

**Product:** Oil Mist Detector

**Model(s):** VISATRON VN 115/87plus, VN 115/87plus Ex, VN 116/87plus, VN 215/87plus

<b>Certificate Type</b>	<b>Certificate Number</b>	<b>Issue Date</b>	<b>Expiry Date</b>
Product Design Assessment (PDA)	20-HG1958312-PDA	09-MAR-2020	08-MAR-2025
Manufacturing Assessment (MA)	18-HG3595343	30-NOV-2018	29-NOV-2023
Product Quality Assurance (PQA)	NA	NA	NA

### **Tier**

3

### **Intended Service**

Monitoring of oil mist concentration in crankcases of internal combustion diesel engines, gas engines and alerting of high concentration.

### **Description**

The VISATRON® series VN87plus OMD-system uses the approved wear-free suction system to continuously extract the atmosphere of the crankcase compartments and other engine locations. A piping system is used to continuously draw the atmosphere to measure the oil mist level in the engine.

- VN115/87plus & VN116/87plus uses a header pipe sampling system to extract the engine crankcase atmosphere;

- VN115/87plusEX uses a header pipe sampling system to extract the engine crankcase atmosphere without air heating system;

- VN215/87plus uses individual compartment suction pipe to extract the individual compartment atmosphere;

Indication of high oil mist concentration: VN115 in entire crankcase, VN116 in either crankcase section, VN215 in each crankcase compartment.

### **Ratings**

Power Supply: 24 V DC +/- 25%, max. 3 A.

Degree of Protection: IP 54.

Max. Air Consumption: 1.0 m<sup>3</sup>/h at 0.5 bar.

Model VN115/87 plus Ex Certified: Ex II (2G) [Ex op is IIB T4 Gb] +5 <= Ta <= +70° C (IBExU14ATEX1153).

### Service Restrictions

Unit Certification is not required for this product. If the manufacturer or purchaser's request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

ATEX certified equipment is not to be installed in hazardous areas on U.S. vessels unless it can be proven to have been tested to the applicable IEC 60079 series standards by an independent laboratory accepted by the U.S. Coast Guard. USCG notice 01-12 (February 7, 2012).

All electrical equipment intended for installation in hazardous areas are to be certified safe type based on the class of the hazardous area at its location of installation. Certificates in this regard are to be presented to ABS Surveyor for verification on a case by case basis.

Sensor Type VN115/87plusEX fulfills in area of the flow channel the explosion protection requirements for Equipment Group II and Category 2G using an inherently safe optical radiation op is for Explosion Group IIB and Temperature Class T4, however the devise itself is to be installed in the safe area.

The vacuum in the engine crankcase, caused by the extraction of gases, is not to exceed 2.5 mbar.

### Comments

Each particular application is to be specifically approved in conjunction with the relevant engine type and installation.

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

### Notes, Drawings and Documentation

Drawing No. 1-8082\_14-01-03, IP Test Report, Cetecom ICT Services Gmbh, 28-07-2014, Revision: -, Pages: -

Drawing No. 1-8082\_14-01-04, ENV Test Report, Cetecom ICT Services Gmbh, 06-10-2014, Revision: -, Pages: -

Drawing No. 1-8082\_14-01-05-A, EMC Test Report, Cetecom ICT Services Gmbh, 24-09-2014, Revision: -, Pages: -

Drawing No. 1-8082\_14-01-06, Vibration Test Report, Cetecom ICT Services Gmbh, 10-09-2014, Revision: -, Pages: -

Drawing No. DNV-GL\_Zert\_ISO9001\_2017\_e, DNV\_ISO9001\_certificate, Revision: -, Pages: -

Drawing No. Stueckliste1000123\_02a-Sendeplatine VN87plus EX, Parts List, Revision: -, Pages: -

Drawing No. 180081 Manual VN87plusEX\_Ver 1 1 Jan 2015, Manual, Revision: -, Pages: -

Drawing No. Release\_Notes\_VN87plusExVersion, Release\_Notes\_VN87plusEx, Revision: -, Pages: -

Drawing No. VA\_7\_3\_04e\_V03, procedural instruction, Revision: -, Pages: -

Drawing No. Manual\_VISATRON\_VN115-87plus\_EX\_V1-0\_12-2014, Manual 12-2014, Revision: -, Pages: -

Drawing No. 1000122\_02-Sendeplatine-Leiterbahnverlauf, Elektonic of transmitter, Revision: -, Pages: -

Drawing No. Back.jpg, Elektronik of transmitter, Revision: -, Pages: -

Drawing No. Front.jpg, Elektronik of transmitter, Revision: -, Pages: -

Drawing No. 1000123\_02-Sendeplatine-Schalt-Bestuckungsplan, Elektronik of transmitter, Revision: -, Pages: -

Drawing No. EX-Schutzbeschreibung\_VN115-87plus Ex, Ex-protection description, Revision: -, Pages: -

Drawing No. ATEX141153, ATEX certificate, Revision: -, Pages: -

Drawing No. VN115-87plus EX IBExU14 ATEX 1153 EN, ATEX Certificate, EN, Revision: -, Pages: -

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(Revalidation 2020)

Drawing No. 1-8082/14-01-05-B, EMC Test Report, Cetecom ICT Services GmbH, 08-12-2014, Revision: -, Pages: -

Drawing No. 1000MHz-6000MHz\_VN87plus, EMC Test Report, SGS TUV Saarland Forster GmbH, 06-12-2019, Revision: -, Pages: -

Drawing No. Manual V2-5\_2017\_08, Manual, Revision: -, Pages: -

Drawing No. VN87 LR Function M67, IACS M67 Functional Test, 09-Sep-2015, Revision: -, Pages: -

Drawing No. VN87plus BV M67, IACS M67 Functional Test, 22-Mar-2017, Revision: -, Pages: -

#### **Term of Validity**

This Product Design Assessment (PDA) Certificate remains valid until 08/Mar/2025 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

#### **ABS Rules**

2020 Marine Vessel Rules: 1-1-4/7.7, 1-1-A3, 1-1-A4, 4-2-1/7.2.2, 4-2-1-A3, 4-6-5/13.1, 4-8-3/1.7, 4-8-3/1.11, 4-8-3/1.13, 4-8-3/1.17.1, 4-8-3/13, 4-9-6/Tables 1A, 1B, 4-9-9/13.1, 4-9-9/15.7 (Table 1), 5C-8-16/11.1

#### **International Standards**

IACS UR E10 (Rev. 7, 2018) except the flame retardant test,

IACS UR M67 (Rev. 2, 2015)

#### **EU-MED Standards**

NA

#### **National Standards**

NA

#### **Government Standards**

NA

**Other Standards**

NA



A handwritten signature in blue ink, appearing to read "James J. White".

Corporate ABS Programs  
American Bureau of Shipping  
Print Date and Time: 11-Mar-2020 4:07

ABS has used due diligence in the preparation of this certificate, and it represents the information on the product in the ABS Records as of the date and time the certificate is printed.

If the Rules and/or standards used in the PDA evaluation are revised or if there is a design modification (whichever occurs first), a PDA revalidation may be necessary.

The continued validity of the MA is dependent on completion of satisfactory audits as required by the ABS Rules. The validity of both PDA and MA entitles the product to receive a **Confirmation of Product Type Approval**.

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or prior to the effective date of the ABS Rules and standards applied at the time of PDA issuance. ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. The manufacturer is responsible to maintain compliance with all specifications applicable to the product design assessment. Unless specifically indicated in the description of the product, certification under type approval does not waive requirements for witnessed inspection or additional survey for product use on a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.