



TYPE APPROVAL CERTIFICATE

Certificate no.:
TAA00001RJ
Revision No:
3

This is to certify:

that the **Safety Unit for Rotating Machinery**

with type designation(s)

Oil Mist Detector Visatron, VN 115/87plus, VN 116/87plus, VN115/87plus EX, VN 215/87plus

issued to

Schaller Automation Industrielle Automationstechnik GmbH & Co KG
Blieskastel, Saarland, Germany

is found to comply with

DNV rules for classification – Ships, offshore units, and high speed and light craft

Application:

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.

Location classes:

Type	Temperature	Humidity	Vibration	EMC	Enclosure
Oil Mist Detector Visatron					
VN 115/87plus	B	B	B	A	IP54
VN 116/87plus	B	B	B	A	IP54
VN115/87plus EX	B	B	B	A	IP54
VN 215/87plus	B	B	B	A	IP54

Issued at **Hamburg** on **2025-04-16**

This Certificate is valid until **2030-06-10**.

DNV local unit: **Essen**

Approval Engineer: **Torsten Dzillak**



for **DNV**

Digitally signed by: Dariusz Lesniewski
Location: DNV SE, Germany

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to USD 300 000.

Product description

Visatron Oil Mist Detector for diesel engine crankcase monitoring, types:

VN 115/87plus, VN 116/87plus, VN115/87plus EX, VN 215/87plus

VN 115: Basic system

without localisation of the point of damage

VN 116: Medium sensitive system

display of crankcase compartment half with the overheating damage

VN 215: high sensitive system - with display of the compartment with the overheating damage

- Voltage: 24V DC +/-25%, Operating Current: max. 3A, Current at make: 4A
- Contact outputs (NO/NC): 1 pre alarm, 1 NO/NC alarm, 1 detector failure
- RS 485 serial data link
- Built-in history storage device
- Connection of remote monitoring device
- Degree of protection: IP 54
- Ex (2G) [Ex op is IIB T4 Gb] $+5 \leq T_a \leq +70 \text{ }^{\circ}\text{C}$ for VN115/87plus EX

Application/Limitation

Spare parts are to be supplied in accordance with recommendation in manual.

Product certificate

As long as the units are covered by the Type Approval, a product certificate will not be required. Correct configuration and set up for each delivery to be tested as part of switchboard functional testing and during commissioning after installation.

Suction pipes to be arranged according to Schaller instructions, with no low "pockets" where liquid oil may assemble and block the path between crankcase and oil mist detector unit.

Ex-certification is not covered by this certificate. Application in hazardous area to be approved in each case according to the Rules and Ex-Certification/ Special Condition for Safe Use listed in valid Ex certificate issued by a notified/recognized Certification Body.

Type Approval documentation

See ANNEX.

Tests carried out

Applicable tests according to Class Guidelines DNV-CG-0339, August 2021.

IACS UR M67 Rev. 1, Oct. 2006

IACS UR M67 Rev. 2, Feb 2015

Marking of product

Manufacturer: Schaller Automation Industrielle Automationstechnik GmbH & Co KG

Model name: As listed under Product description

Serial number: Unique for each delivered item

Periodical assessment

The main elements of the assessment are:

- Ensure that type approved documentation is available
 - Inspection of factory samples, selected at random from the production line (where practicable)
 - Review of production and inspection routines, including test records from product sample tests and control routines
 - Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
 - Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
 - Ensuring traceability between manufacturer's product type marking and the type approval certificate
- Retention survey is to be performed at least every second year and at renewal of this certificate.

END OF CERTIFICATE

ANNEX
Type Approval documentation
 (hidden)

VISATRON VN 87 plus V1.0,	08/2006
VISATRON VN115/87plus EX V1.1	01/2015
Update 2018	
Operation Manual VN115/87plus EX, Version 1.4	02/2017
Operation Manual VN115, 116, 215 /87plus, Version 2.5	08/2017

Drawings:	
050072-015	13.08.99
070055-012	26.03.99
070022-011	26.03.99
DC094001 02-005	09.06.04
DC094002 02-005	08.01.01
DC094003 02 005	17.06.04

CETECOM 4-2018/06-01-01(EMC)
 CETECOM 4-2018-1-2 (Climatic)
 For Vibration see certificate 94635-94HH (VNxxx/93), GSSO IACS UR M67, 2007-02-22
 CETECOM 1-8082/14-01-05-A (EMC)
 CETECOM 1-8082/14-01-04 (Climatic)
 CETECOM 1-8082/14-01-06 (Vibration)
 CETECOM 1-8082/14-01-03 (IP54)

Extension 2008:
 Binder with complete documentation of Visatron VN115/87, 116/87, 215/87plus:
 Ch. 1: Operation Manual. Version 1.7, 07/2008
 Ch. 3: Circuit diagrams
 Ch. 5: 4-2912-01-01/07 & 3-5679-1-1/08
 Ch. 6: 4-2018-1-2/06
 Ch. 7: Test Report M67, Acceptance date 2007-02-22, Ref.no: 07-008268

Documentation submitted for IACS UR M67 required tests:
 GSSO IACS UR M67, 2007-02-22

Documentation submitted for IACS UR M67 Rev. 2 required tests:
 OMD Function Test IACS UR M67 Rev, 2 regarding VN87plus 2017-08-07

Ex Certificate IBEEExU14ATEX1153

Certification Retention Survey Report DNV Essen	2013-03-06
Periodical Assessment Report DNVGL Essen	2016-08-31
Periodical Assessment Report DNVGL Essen	2020-04-01
Certification Retention Survey Report DNV Augsburg	2025-03-27

TÜV 79917_05122019_VN87plus	
Additional EMC tests for extended frequency range	2019-12-06