



# TYPE APPROVAL CERTIFICATE

Certificate No:  
**TAA00000M9**  
Revision No:  
**3**

## This is to certify:

That the **Safety Unit for Rotating Machinery**

with type designation(s)  
**Oil Mist Detector Visatron, VN 115/93, VN 116/93, VN 215/93**

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

is found to comply with  
**DNV GL rules for classification – Ships**  
**DNV GL rules for classification – High speed and light craft**

## Application :

Location classes:

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

Type	Temperature	Humidity	Vibration	EMC	Enclosure
Oil Mist Detector Visatron					
VN 115/93	B	B	B	A	IP54
VN 116/93	B	B	B	A	IP54
VN 215/93	B	B	B	A	IP54

Issued at **Hamburg** on **2021-07-09**

for **DNV**

This Certificate is valid until **2026-07-08**.

DNV local station: **Augsburg**

Approval Engineer: **Marco Rinkel**

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**Joannis Papanuskas**  
**Head of Section**

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 300,000 USD.



## Product description

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

VN115/93, VN116/93, VN215/93,

VN 115:	Basic system without localization 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 prealarm, 1 NO/NC alarm, 1 detector failure
- RS 485 serial data link
- Built-in history storage device
- Connection of remote monitoring device

## 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.

System can be used on vessels contracted before 2022-01-01.

## Type Approval documentation

See ANNEX.

## Tests carried out

Applicable tests according to Class Guidelines DNVGL-CG-0339, November 2019 (see limitation).

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



Job Id: 262.1-023369-3  
Certificate No: TAA00000M9  
Revision No: 3

**ANNEX**  
**Type Approval documentation**  
(hidden)

Manual for Oil Mist Detector, Visatron System VN 115/93, VN 116/93, VN 215/93 No. 10980 Ed. 04W Manual VN93 180006 Version 2.4	11-2015
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
Oil Mist Detector Operating Instructions, Article No.: 2100	edition 06 99
Test reports: 330/97, 515/99, Cetecom 4-1055-1-1/03	
Test reports for VN XXX/87 type approval	12.08.99
EMC test report ESW 03509.023.95	95-03-08
Documentation submitted for IACS UR M67 required tests: For VISATRON VN115, 116, 215/93	
- GSSO Test Report,	2007-04-04
- CETECOM Test report 4-1055-01-01/03	
Documentation submitted for IACS UR M67 Rev. 2 required tests: OMD Function Test IACS UR M67 Rev, 2 regarding VN93	2017-08-07
Certification Retention Survey Report DNV Essen,	2013-03-06
Periodical Assessment Report DNVGL Essen,	2016-08-31
Periodical Assessment Report DNVGL Augsburg,	2021-06-09