

TYPE APPROVAL CERTIFICATE

DNV-GL

This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the DNV GL Type Approval System.

Certificate No. **33 671 - 06 HH**

Company **Schaller Automation
Industrielle Automationstechnik GmbH & Co. KG
Industriering 14
66440 Blieskastel, GERMANY**

Product Description **Oil Mist Detector for internal Combustion Engines**

Type **VISATRON
TYPE VN 115/87plus; VN 116/87plus; VN115/87plus EX; VN 215/87plus**

Environmental Category **D, EMC 2**

Technical Data /
Range of Application **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**

**Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.
For delivery to vessels classed according to DNV or DNV GL rules, the system is required to be verified for compliance with DNV / DNV GL rules through product certification. This entails design approval and manufacturing survey as detailed in the respective DNV or DNV GL rules.**

Software Version: V5.2x (First version: V5.00)

Test Standard **Guidelines for the Performance of Type Approvals Part 2, 2012
IACS UR M67 Rev. 1, Oct. 2006**

Documents **see page 2**

Remarks **Suitability has to be demonstrated for each individual engine type. Proofs for IACS UR M67 to be furnished. Ex Certification for information.**

Valid until **2020-04-01**

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File No. **I.A.04**

Hamburg, 2015-07-23

Type Approval Symbol



i.A.

Arne Schaarmann

Marco Rinkel

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Technical Data

- 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
- Degree of protection: IP 54
- Ex (2G) [Ex op is IIB T4 Gb] +5 ≤ Ta ≤ +70 °C for VN115/87plus EX

Test reports

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)

Operation Manual

VISATRON VN 87 plus V1.0, 08/2006
VISATRON VN115/87plus EX V1.1 01/2015

Ex Certificate IBExU14ATEX1153

Software listing V5.02 for requirement class 3
Software Release Note FB_8.2_27_V02

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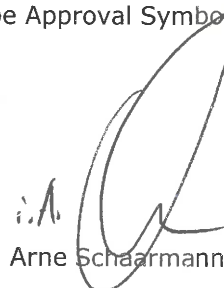
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