



Marine & Offshore

Certificate number: 60308/A0 BV

File number: AP 4893

Product code: 3946H

This certificate is not valid when presented without the full attached schedule composed of 7 sections

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TYPE APPROVAL CERTIFICATE

This certificate is issued to

SCHALLER AUTOMATION GmbH & Co. KG

Blieskastel/Saar - GERMANY

for the type of product

OIL MIST DETECTION SYSTEMS

Oil Mist Detectors - Visatron VN2020 (Ex)

Requirements:

Bureau Veritas Rules for the Classification of Steel Ships
IACS UR M67 Rev. 2, Feb 2015

EC Code : 33

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 03 Mar 2025

For Bureau Veritas Marine & Offshore,

At BV HAMBURG, on 03 Mar 2020,

Dirk Hoefner



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

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BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

Oil Mist Detection System VISATRON VN2020 (Ex) is used to extract the atmosphere of the crankcase compartments and to detect the presence of Oil Mist.

Power Supply	18 -31.2 VDC, max. 2A
Nominal Voltage	24 VDC
Relay Outputs	2 x 'High Oil Mist Alarm' 1 x 'Ready' 1 x 'Oil Mist Pre-Alarm' (max. 60 Volts AC/DC, 1A)
Cable Entry	2 x M25 (8-16mm), 1x M20 (5-13mm)
Communication Interface	3 wire RS485, galvanically isolated (CAN-open, galvanically isolated)
Protection Class	IP 54
Ex Marking for VN2020 Ex	II (2G) [Ex op is IIB T4 Gb] +5°C ≤ Ta ≤ +70°C
Software Verison	V1.07

2. DOCUMENTS AND DRAWINGS :

SCHALLER AUTOMATION:

- Operation Manual, No. 183000 Ver. 1.0, dated April, 2019.
- Quality Assurance Measures for the Generation of Software, No. VA_7.3_004eV05, dated 07-03-2018.
- VN2020 Sendeplatine Drawing No. 260064, dated 14-01-2019.
- VN2020 CPU Board Drawing No. 1000194, dated 21-06-2016.
- VN2020 Terminal Box PCB Drawing No. 1000196, dated 04-05-2017.
- VN2020 Display PCB Drawing No. 1000198, dated 12-04-2017.

3. TEST REPORTS :

CTC:

- Test Report No. 1-7830/19-01-04, dated 20-02-2019.
- Test Report No. 1-7830/19-01-05, dated 20-03-2019.

SCHALLER AUTOMATION:

- Function Test - IACS UR-M67 Rev.2, No. FB_7.1_012_V03, dated 22-05-2019.

Ex certificate:

- EU-Type Examination certificate, No. IBExU19ATEX1048 Issue 0, dated 18-04-2019.

4. APPLICATION / LIMITATION :

- 4.1 - Bureau Veritas Rules for the Classification of Steel Ships.
- 4.2 - Approval valid for ships intended to be granted with the following additional class notations: **AUT-UMS, AUT-CCS, AUT-PORT and AUT-IMS.**
- 4.3 – Bureau Veritas Environmental Category, **EC Code: 33.**
- 4.4 - The equipment fulfills the EMC requirements for installation in General power Distribution Zones.
- 4.5 - Only Hardware and Firmware / Software successfully tested together in compliance with the regulations as referred to in page one, according to the declaration of the manufacturer are covered by this certificate.
- 4.6 - The installation shall comply with the Manufacturer's recommendation described in the above-referenced documentation.
- 4.7 - Ex certification is not covered by this certificate, Applications in hazardous areas are to be approved in each case according to the Rules and Conditions for Safe Use specified in a valid Ex-Certificate issued by a Notified or Recognised Certification Body.
- 4.8 - The product complies with the test requirements of IACS E10 Rev.7.

5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The VISATRON VN2020 (Ex) are to be supplied by **SCHALLER AUTOMATION GmbH & Co. KG** in compliance with the type described in this certificate.

5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320 and as such does not require a BV product certificate.

5.3 - **SCHALLER AUTOMATION GmbH & Co. KG** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.

5.4 - For information, **SCHALLER AUTOMATION GmbH & Co. KG** has declared to Bureau Veritas the following production site(s):

SCHALLER AUTOMATION GmbH & Co. KG
Industriering 14
D-66440 Blieskastel/Saar
GERMANY

6. MARKING OF PRODUCT :

- Trade name.
- Date of manufacture and serial number.
- Equipment type or model identification under which it was type-tested.

7. OTHERS :

It is **SCHALLER AUTOMATION GmbH & Co. KG**'s responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

*** END OF CERTIFICATE ***