



Marine & Offshore

Certificate number: 31027/B0 BV

File number: AP 4411

Product code: 3946H

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

www.veristar.com

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

VISATRON VN301PLUS and 301plus EX

Requirements:

BV Rules for the Classification of Steel Ships,
IACS UR-M67 Rev.2.

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: 28 Mar 2023

For Bureau Veritas Marine & Offshore,

At BV HAMBURG, on 28 Mar 2018,

Dirk Hoepfner



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.

The electronic version is available at: <http://www.veristarm.com/veristarnb/jsp/viewPublicPdfTypepec.jsp?id=hgedzk51ok>

BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

VISATRON VN301PLUS and **301plus EX** are based on up to 10 Oil Mist Detection sensors connected to a central unit via hybrid cables for electric and air supply.

1.1 - Main Characteristics:

Power Supply:	24 VDC
Communication:	2x CAN 1x RS485 galvanic isolated 1x USB (for adjusting of sensors)
Relay Outputs:	2x Main Alarms, 1x Pre-Alarm, 1x System Ready
Sensor types:	VN301plus with vertical cable connection, VN301plus with horizontal cable connection, VN301plus EX with vertical cable connection, VN301plus EX with horizontal cable connection
Software Version:	V1.16 (Central unit) V1.16 (Sensors)
Degree of protection:	IP 65

2. DOCUMENTS AND DRAWINGS:

Operation Manual: - Visatron VN301plus/VN301plusEX, Version 1.2, dated 04.2015.
DC18040102 Rev. 002 dated 02.03.12; DC18040302 dated 29.02.12; DC18040502 dated 18.04.12.
1000006 Rev. 003 dated 18.11.2011; 1000048 Rev. 001 dated 25.11.2011; 100032 Rev. 003 dated 18.01.2012.
210970 Rev. 05 dated 14.12.2011; 210971 Rev. 07 dated 14.12.2011;
EC-Type Examination Certificate No BVS 11 ATEX E 175, dated Feb 21, 2012.

3. TEST REPORTS:

- CETECOM ICT Services GmbH:

- 1-4083/11-01-02 dated 02/03/2012.
- 1-4083/11-01-03 dated 13/03/2012.03.
- 1-4083/11-01-05 dated 13/03/2012.

GSSO GmbH:

Unreferenced Test Report according to IACS UR M67 dated 15.03.2012

For Revision B0:

- OMD Function Test IACS UR-M67 Rev.2, dated 22/03/2017.

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.

5. PRODUCTION SURVEY REQUIREMENTS:

- 5.1 - The above products 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:

- Maker's name or trade mark.
- Date of manufacture and/or serial number.
- Equipment type or model identification.
- Ex marking, as relevant

7. OTHERS:

7.1 - It is **SCHALLER AUTOMATION GmbH & Co. KG** 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.

7.2 - This certificate supersedes the Type Approval Certificate No. 31027/A0 BV issued on 16/05/2013 by the Society.

***** END OF CERTIFICATE *****