



Marine & Offshore

Certificate number: 39095/B0 BV

File number: AP4529

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

motcom GmbH

Saarbrücken - GERMANY

for the type of product

OIL MIST DETECTION SYSTEMS

SiCOMS / OCom

Single Compartment Oil Mist online detection System

Requirements:

Bureau Veritas Rules for the Classification of Steel Ships.

EC Code: 33.

IACS UR M67 Rev.2

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: 02 Jul 2025

For Bureau Veritas Marine & Offshore,

At BV HAMBURG, on 02 Jul 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:

The **SiCOMS / OCom** (Single Compartment Oil Mist online detection System) consists of Evaluator (type OCMEV) and up to 16 Sensors.

1.1 - Main characteristics:

Power Supply:	24V DC; 1.5A max.
Sensitivity:	Sensitivity Level 1...10, adjustable in 10 steps from 0,2 to 10 mg/l
Relay Outputs:	1x Main alarm, 1x Pre-alarm, 1x System ready
Serial Interface:	RS485, Modbus, CAN Bus (optional)
Degree of Protection:	IP65
Software Version:	Evaluator V2.01 Remote Monitoring Unit V2.0 B1001 Sensor V3.53

1.2 - Sensor types:

- SiSe/OC 14; SiSe/OC 14 EX
- SiSe/OC 16; SiSe/OC 16 EX
- SiSe/OC 20; SiSe/OC 20 EX

1.3 Types of SOG :

Splash-Oil-Guard prevents the sensor from being soiled with splash oil, but allows oil mist and water vapour to enter.

OCom SOG 65 for SiSe/OC 20 (*)	Sensor with system redundancy for HFO+Diesel and for Gas+Dual Fuel Engines
OCom SOG 53 for SiSe/OC 16 (*)	
OCom SOG 24 for SiSe/OC 14 (*)	

Diffusor add-on for SOG sensors which are installed near or OCom Diffusor for SOG 65, 53 and 24 in a section with high splash oil concentration

2. DOCUMENTS AND DRAWINGS:

Drawings: PCB-Layouts; mechanical drawings.

For modification B0 version:

User Manual: Part No. 2900 00 00000 Rev. 190211.

Installation Manual: Part No. 2 900 00 00001 Rev. 190211.

Quality assurance for the creation of software, No. VA-001-QS-SOFTWARE Ver. 1.0, dated 18-05-2020.

Version history OMD Sensor Firmware No. SW_version_OMD_Sensor, dated 08-03-2018.

Version history OMD evaluator software No. Version_history_OMD_eva, dated 24-04-2018.

Version history of Remote Monitoring Unit firmware No. Version_history_RMU_eva, dated 07-02-2017.

Drawings : PCB-Mainboard, SOG-OMD OC 14/16/20.

3. TEST REPORTS:

CETECOM ICT Services GmbH:

- 1-7051/13-01-02 dated 2014.01.29; 1-7051/13-01-02-B dated 2015.08.07;
- 1-7051/13-01-03 dated 2014.02.24; 1-7051/13-01-03-A dated 2014.08.26;
- 1-7051/13-01-04 dated 2014.03.13

Sybille Schaller & Dr. Kuhn GmbH:

- Type Test M67 dated 2007-01-15/16

DEKRA EXAM GmbH:

- BVS 07 ATEX E 076 X 1. Suppl. dated 6. June 2013
- BVS 13 ATEX E 116 X, dated 08.Nov.2013.

For modification B0 version:

motcom GmbH:

- Type Test M67, witnessed on 07-10-2019.

CTC advanced GmbH:

- Test Report No.: 1-0116/20-01-02_A, dated 03-04-2020.

4. APPLICATION/LIMITATION:

- 4.1 - Bureau Veritas Rules and Regulations 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 fulfils the EMC requirements for installation in General Power Distribution Zones.
4.5 - Factory Acceptance and On-board Tests are to be performed in accordance with requirements for Category III Equipment.
4.6 - 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 is covered by this certificate.
4.7 - The installation shall comply with the Manufacturer's recommendation described in the above-referenced documentation.
4.8 - The product complies with the test requirements of IACS E10 Rev.7.

5. PRODUCTION SURVEY REQUIREMENTS:

- 5.1 - The above mentioned products are to be supplied by **motcom GmbH** 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 - **motcom GmbH** 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, **motcom GmbH** has declared to Bureau Veritas the following production site(s):

motcom GmbH
Kurt-Schumacher-Str. 28-30
66130 Saarbrücken
GERMANY

6. MARKING OF PRODUCT:

- Maker's name or trade mark.
- Equipment type or model identification.
- Date of manufacture and/or serial number.
- The title and version of each software element included in the installed software system shall be either marked or displayed on command on the equipment.
- When the marking and the title and version of the software are displayed only on the display, such information shall also be included in the equipment manual.

7. OTHERS:

- 7.1 - It is **motcom GmbH'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.
7.2 - This certificate supersedes the Type Approval Certificate No. 39095/A0 BV issued on 18 Feb 2015 by the Society.

*** END OF CERTIFICATE ***