



CERTIFICATE NUMBER 23-2429567-PDA  
EFFECTIVE DATE 3-AUG-2023  
EXPIRATION DATE 2-AUG-2028  
ABS TECHNICAL OFFICE Yokohama Engineering Services

## CERTIFICATE OF Product Design Assessment

This is to certify that a representative of this Bureau did, at the request of

**MOTCOM GMBH**  
located at  
**SAARBRUECKEN, Germany**

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

**Product Oil Mist Detector**

**Model SiCOMS/OCom**

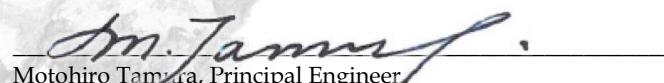
**Endorsement: Other**

This Product Design Assessment (PDA) Certificate remains valid until 2 August 2028 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

American Bureau of Shipping

  
Motohiro Tamura, Principal Engineer

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement

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**Tier: 3 - Type Approved, unit certification not required**

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**Product:** Oil Mist Detector

**Model:** SiCOMS/OCom

**Endorsements:**

**Intended Service:**

Monitoring of oil mist concentration in single compartments of Diesel engines and alerting of high concentration.

**Description:**

Single compartment oil mist online detection system consisting of evaluator unit (OCMEV) in aluminum housing with LCD display and up to 16 sensor units (SiSe/OC20(EX) (OC16(EX), OC14(EX))) connected via redundant serial bus system.

Three independent output relay contacts and serial interface RS 485 (bidirectional communication).

**Rating:**

Power Supply: 24V DC 30%/-25%, max. 1.5A.

Degree of Protection: IP65.

Sensitivity: 0.2 mg/l to 10 mg/l (adjustable in 10 steps).

Ambient Temperature: 0-70°C.

**Service Restriction:**

Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

**Comments:**

- Each particular application is to be specifically approved in conjunction with the relevant engine type and installation.

- The manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

**Notes/Drawing/Documentation:**

Drawing No. 01-1, Test Report, 1-7051/13-01-02-B, CETECOM, 07/08/2015, Revision: 0, Pages: 0

Drawing No. 01-2, Test Report, 1-7051/13-01-03-A, CETECOM, 26/08/2014, Revision: 0, Pages: 0

Drawing No. 01-3, Test Report, 1-7051/13-01-04, 13/03/2014, Revision: 0, Pages: 0

Drawing No. 02, software documentation, Revision: 0, Pages: 0

Drawing No. 03, wiring diagram\_layout, Revision: 0, Pages: 0

Drawing No. 04-1, AA-work instructions, Revision: 0, Pages: 0

Drawing No. 05-1, Drawings Evaluator, Revision: 0, Pages: 0

Drawing No. 05-2, Drawings-diffusor\_53\_diffusor\_53s, Revision: 0, Pages: 0

Drawing No. 05-3, Drawings-diffusor\_65\_diffusor\_65s, Revision: 0, Pages: 0

Drawing No. 05-4, Drawings-sensor different types, Revision: 0, Pages: 0

Drawing No. 06, manuals, Revision: 0, Pages: 0

Drawing No. 001, OMD-sensor-LP2-04\_best\_bot.pdf, Revision: 04, Pages: 01

Drawing No. 002, OMD-sensor-LP2-04\_best\_top.pdf, Revision: 04, Pages: 01

Drawing No. 003, OMD-sensor-LP2-04\_lay\_bot.pdf, Revision: 04, Pages: 01

Drawing No. 004, OMD-sensor-LP2-04\_lay\_top.pdf, Revision: 04, Pages: 01

Drawing No. 005, OMD-sensor-LP2-04\_wd.pdf, Revision: 04, Pages: 1-3

Drawing No. 006, Eva-mainboard-04\_best\_bot.pdf, Revision: 04, Pages: 01

Drawing No. 007, Eva-mainboard-04\_best\_top.pdf, Revision: 04, Pages: 01

Drawing No. 008, Eva-mainboard-04\_lay\_bot.pdf, Revision: 04, Pages: 01

Drawing No. 009, Eva-mainboard-04\_lay\_top.pdf, Revision: 04, Pages: 01

Drawing No. 010, Eva-mainboard\_04\_wd.pdf, Revision: 04, Pages: 1-6

Drawing No. 1-0116/20-01-02\_A, Test Report No.: 1-0116/20-01-02\_A, Revision: A, Pages: 33 issued by CTC advanced GmbH, Test date: 31 March 2020

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**Tier: 3 - Type Approved, unit certification not required**

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**Terms of Validity:**

This Product Design Assessment (PDA) Certificate remains valid until 02/Aug/2028 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

**STANDARDS**

**ABS Rules:**

2023 Marine Vessel Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, 4-2-1/7.2/App.3, 4-8-3/1.7, 4-8-3/1.11, 4-8-3/1.17, 4-9-6/Tables 1A, 4-9-6/Tables 1B, 4-9-9/13, 5C-8-App.7/3.5.3, 5C-8-App.7/Table 1 and 3, 5C-13-10/3.1.13, 5C-13-15/Table 8

**National:**

None

**International:**

IACS UR E10 (1991/Rev. 8 Corr1, 2022), M67 (2005/Rev. 2, 2015)

**Government:**

None

**EUMED:**

None

**OTHERS:**

None