



CERTIFICATE NUMBER

DATE

13-HG1079937-PDA

30 September 2013

ABS TECHNICAL OFFICE

Hamburg Engineering Department

CERTIFICATE OF DESIGN ASSESSMENT

This is to Certify that a representative of this Bureau did, at the request of
MOTCOM GMBH - D-66130 SAARBRUECKEN

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**

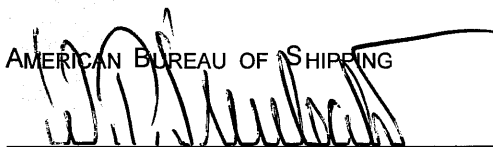
MODEL: **SiCOMS - Mark X**

This Product Design Assessment (PDA) Certificate 13-HG1079937-PDA, dated 30/Sep/2013 remains valid until 29/Sep/2018 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product.

Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA.

Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.

AMERICAN BUREAU OF SHIPPING

Wulf-Peter Senebald
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 the terms and conditions as contained in ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010).

MOTCOM GMBH

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Product: Oil Mist Detector

Model: SiCOMS - Mark X

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 (MK 5) in aluminum housing with LCD display and up to 16 sensor units (SiSe 0501) connected via redundant serial bus system.
Three independent output relay contacts and serial interface RS 485 (bidirectional communication).

Ratings:

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 Restrictions:

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.

Notes / Drawings / Documentation:

This Product Design Assessment (PDA) is valid only for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product. Use in a non-classed vessel, MODU's or Facility is to be to the satisfaction of the manufacturer and purchaser.

Term of Validity:

This Product Design Assessment (PDA) Certificate 13-HG1079937-PDA, dated 30/Sep/2013 remains valid until 29/Sep/2018 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product.

Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA.

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STANDARDS

ABS Rules:

The manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product. The Rules applicable to this assessment are: 2013 Rules for Building and Classing Steel Vessels 1-1-4/7.7, 1-1-Appendix 3, 4-2-1/7.2/App.6, 4-8-3/1.7/1.11/1.17, 4-9-7/13, 4-9-4/Tables 3A, 3B

National:

None

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International:

IACS UR E10, M67 Rev.1

Government Authority:

None

EUMED:

None

Others:

None