



CERTIFICATE NUMBER  
EFFECTIVE DATE  
EXPIRY DATE  
ABS TECHNICAL OFFICE

19-LD1928605-PDA  
16-Dec-2019  
15-Dec-2024  
London Engineering Department

## CERTIFICATE OF Product Design Assessment

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

**SIMTRONICS AS**

located at

**KABELGATEN 8, BOX 314, OSLO, Norway, N-0511**

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 Gas Detector**

**Model GD 10**

This Product Design Assessment (PDA) Certificate remains valid until 15/Dec/2024 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

Theodoros Chatzidakidas, Engineer/Consultant

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 (2010)

**SIMTRONICS AS**

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Tier: 2 - PDA Issued

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**Product:** Gas Detector**Model:** GD 10**Intended Service:**

ABS classed vessels and offshore installations in accordance with the listed ABS Rules and International Standards.

**Description:**

Microprocessor type detector for combustible and other gases based on infrared principle. The GD 10 composes of 2 variants, GD10P and GD10PE.

**Rating:**

Power Supply: 24 V DC; Output Signal: 4-20 mA;

Temperature Range (Ex range): -40 Degree C to +65 Degree C;

Enclosure rating: IP66/67;

Certification marking: Ex de IIC T6 Gb;

Electrical Performance Temperature range: -20 Degree C to +60 Degree C or -20 Degree C to +40 Degree 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:**

A declaration for the control, or lack of, Asbestos has been provided for this product.

**Notes/Drawing/Documentation:**

Drawing No. 806-812498R02, GD10\_ABS TYPE APPROVAL, Revision: -, Pages: -

Drawing No. 806-816764R06, ABS Manufacturing Assessment GD10, Revision: -, Pages: -

Drawing No. 806-816907R00, ABS Design Assessment GD10, Revision: -, Pages: -

Drawing No. 810868R03, Assembly Drawing, Revision: -, Pages: -

Drawing No. CET0171360, EMC Report, Date: 26-Mar-2019, Cetim, Revision: -, Pages: -

Drawing No. GD10P\_MED B\_DNV\_MEDB0000029\_04, MED Module B Certificate, Revision: -, Pages: -

**Terms of Validity:**

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**STANDARDS****ABS Rules:**

- Marine Vessels Rules (2019): 1-1-4/7.7, 1-1-A3, 1-1-A4, 4-8-3/1.7, 4-8-3/13.3.2, 4-8-3/13.3.3, 4-8-4/27.5, 4-9-8/13, 4-9-9/13, 4-9-9/Table1, 5C-1-7/31.9, 5C-8-13/6.74-9-9/7

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- Steel Vessels for Service on Rivers and Intracoastal Waterways (2019): 1-1-4/7.7, 1-1-A3, 1-1-A4
- Steel Barge Rules (2019): 1-1-4/7.9, 1-1-A3, 1-1-A4
- High Speed Crafts (2019): 1-1-4/11.9, 1-1-A2, 1-1-A3, 4-6-1/11, 4-7-9/7, 4-7-9/15, 4-7-9/Table 9
- Facilities on Offshore Installations (2019): 1-1-4/9.7, 1-1-A2, 1-1-A3
- Mobile Offshore Units (2019): 1-1-4/9.7, 1-1-A2, 1-1-A3, 4-1-1/7.9, 4-3-1/11, 6-1-1/9, 6-1-1/13;

**National:**

NA

**International:**

- IEC 60092-504 (2016)
- IEC 60533 (2015)

**Government:**

NA

**EUMED:**

NA

**OTHERS:**

NA