



CERTIFICATE NUMBER
15-LD1403860-PDA

DATE
04 Aug 2015

ABS TECHNICAL OFFICE
London Engineering Department

CERTIFICATE OF DESIGN ASSESSMENT

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

ELECTRONSTANDART-PRIBOR

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: **SGOES**

This Product Design Assessment (PDA) Certificate 15-LD1403860-PDA, dated 04/Aug/2015 remains valid until 03/Aug/2020 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

Roberto Alvarez
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).

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Tier: 3 - Type Approved, unit certification not required

Product: Gas Detector

Model: SGOES

Intended Service:

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

Description:

SGOES is designed to measure pre-explosive concentrations of gasses such as methane and propane.

Rating:

24V DC (18 - 32V DC), maximum electrical power consumption 4.5VA. Ambient temperature range -40C to +85C, relative air humidity to 95% at 35C. Enclosure rated at IP66 for indoor and outdoor use. Hazardous (Classified) Location rating for Class I, Division 1, Groups B, C, and D, T4 Ta = -40 to + 85C; IP66 and IEC Zones 1 & 2 according to IEC 60079-10.

Service Restriction:

Unit certification is not required for this product. ATEX certified equipment is not to be installed in hazardous areas on U.S. Flagged Vessels, unless it can be proven to have been tested to the IEC 60079 series standards by an independent laboratory accepted by the U.S. Coast Guard. USCG MI Notice 01-12 (February 7, 2012) refers.

Comments:

Where the detector is installed as a component of a detection system the complete system is to be specifically approved

Notes/Drawing/Documentation:

Drawing No. 6ATEX1219X, IPES NEMKO EC Declaration of Conformity, Revision: -, Pages: -
Drawing No. 06ATEX1355, SGOES NEMKO EC Declaration of Conformity, Revision: -, Pages: -
Drawing No. 413311 002AD, GAS Analyzer SGOES, Revision: -, Pages: -
Drawing No. 425248 001AD, General Arrangement for IPES-IR/UV, Revision: -, Pages: -
Drawing No. 713538 004, Body of IPES, Revision: -, Pages: -
Drawing No. 713538 006, Body of SGOES, Revision: -, Pages: -
Drawing No. Gas Analyzer SGOES, Flame Detector IPES - Revised drawings, Revision: -, Pages: -

Terms of Validity:

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STANDARDS**ABS Rules:**

- Steel Vessels (2015) 1-1-4/7.7, 1-1-A3&A4; 4-8-3/1.7, 4-8-3/1.11, 4-9-8/13, 4-9-8/13 Table 1, Table 2, 5C1-7/31.9

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and 5C-1-7/Table 1, 5C-8-10/1.4.

- Steel Vessels Under 90 Meters (295 Feet) in Length (2015) 1-1-4/7.7, 1-1-A3&A4; 4-1-1/3.3, 4-7-1/5.39, 4-7-2/15.1, 4-7-2/15.3, 4-7-2/17.3.
- Facilities on Offshore Installations (2015) 1-1-4/9.7, 1-1-A2&A3, 3-6/15.3.
- Offshore Support Vessels (2015) 1-1-4/7.7, 1-1-A3&A4, 4-9-8/7, 4-9-8/13, 4-9-8/Tables 1&2.
- Mobile Offshore Drilling Units (2015) 1-1-4/9.7, 1-1-A2&A3, 6-1-1/9, 6-1-1/13.
- Steel Vessels for Service on Rivers and Intracoastal Waterways (2015) 1-1-4/7.7, 1-1-A3&A4.
- 1978 Bulk Carriers for Service on the Great Lakes (Up-dated 2008) 1-1-4/7.7, 1-1-A3&A4.
- High Speed Crafts (2015) 1-1-4/11.9, 1-1-A2&A3.
- Steel Barges (2015) 1-1-4/7.7, 1-1-A3&A4.

National:

NA

International:

EN 60079-0:2012, EN 60079-1:2007, EN 60079-11:2012 & EN 60079-28:2007

Government:

NA

EUMED:

NA

OTHERS:

NA