



CERTIFICATE NUMBER
18-HS1709815-PDA

DATE
05 Feb 2018

ABS TECHNICAL OFFICE
Houston ESD - Electrical

CERTIFICATE OF Design Assessment

This is to certify that a representative of this Bureau did, at the request of
RKI INSTRUMENTS, INC.

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 Monitor**

Model: **BEACON 410A**

This Product Design Assessment (PDA) Certificate 18-HS1709815-PDA, dated 05/Feb/2018 remains valid until 04/Feb/2023 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

Tim Kimble
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 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).

RKI INSTRUMENTS

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Web: rkiinstruments.com

Tier: 3 - Type Approved, unit certification not required

Product: Gas Monitor

Model: BEACON 410A

Intended Service:

Marine & Offshore Application

Description:

Four Channel Wall Mount Controller.

Rating:

Power: 100/115/220 Vac , 50/60Hz, or 24 Vdc;

Temperature: -40°C to 50°C

Enclosure Type: NEMA 4X.

See attached "pdf" Specification Data Sheet for details;

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.

- To be used in non-hazardous areas only.

Comments:

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

Notes/Drawing/Documentation:

FOUR CHANNEL WALL MOUNT CONTROLLER, Beacon-410A datasheet, Pages: 2;

CSA Certificate 70086697, date issued 2016-11-09, Pages: 4;

CSA Descriptive Report and Test Results, Report : 70086697, Issue date : 2016-11-09, Edition 2, Pages:17;

Drawing No. 72-2104A, Assembly, Beacon 410A Controller, Standard Basic Unit, Revision: P3, Pages: 3;

Beacon 410A Gas Monitor Operators Manual, Part number: 71-0397,Revision : F, Released 12/5/17, Pages: 80;

Terms of Validity:

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STANDARDS

ABS Rules:

Rules for Conditions of Classification, Part 1- 2018 Steel Vessels Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following:

2018 Steel Vessels Rules: 4-8-3/1.11.1, 4-8-3/Table 2;

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Rules for Conditions of Classification, Part 1- 2018 Offshore Units and Structures 1-1-4/9.7, 1-1-A2, 1-1-A3, which covers the following:

2018 Mobile Offshore Drilling Units Rules: 4-3-3/3.1.1(a), 4-3-3/Table 1.

National:

CAN/CSA C22.2 No. 61010-1-12, Third Edition

UL 61010-1, Third Edition

International:

NA

Government:

NA

EUMED:

NA

OTHERS:

NA