



Confirmation of Product Type Approval

Company Name: RKI INSTRUMENTS, INC.

Address: 33248 CENTRAL AVE. CA 94587 United States

Product: Gas Monitor

Model(s): BEACON 410A

Endorsements:

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	22-2340721-PDA	27-DEC-2022	26-DEC-2027
Manufacturing Assessment (MA)	19-SF3608918	10-JAN-2019	22-JAN-2024
Product Quality Assurance (PQA)	NA	NA	NA

Tier

3 - Type Approved, unit certification not required

Intended Service

Marine & Offshore Application.

Description

Four Channel Wall Mount Controller. Gas Monitoring

Ratings

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

Operating Temperature: -20°C to 50°C

Enclosure Type: NEMA 4X.

See attached "pdf" Specification Data Sheet for details;

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.

- 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, Drawings and Documentation

FOUR CHANNEL WALL MOUNT CONTROLLER, Beacon-410A datasheet, Revision: FO24-1610, Pages: 2;

RKI INSTRUMENTS Declaration of Conformity, 18-HS1709815-PDA, Date:12/14/2022

Previous Documents (T1709815):

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;

Term of Validity

This Product Design Assessment (PDA) Certificate remains valid until 26/Dec/2027 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.

ABS Rules

Rules for Conditions of Classification, Part 1- 2022 Steel Vessels Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following:

2022 Steel Vessels Rules: 4-8-3/1.11.1, 4-8-3/Table 2;

Rules for Conditions of Classification, Part 1- 2022 Offshore Units and Structures 1-1-4/9.7, 1-1-A2, 1-1-A3, which covers the following:

2022 Mobile Offshore Drilling Units Rules: 4-3-3/3.1.1(a), 4-3-3/Table 1.

International Standards

NA

EU-MED Standards

NA

National Standards

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

UL 61010-1, Third Edition

Government Standards

NA

Other Standards

NA



A handwritten signature in blue ink, appearing to read "Joseph W. White".

Corporate ABS Programs
American Bureau of Shipping
Print Date and Time: 28-Dec-2022 2:48

ABS has used due diligence in the preparation of this certificate, and it represents the information on the product in the ABS Records as of the date and time the certificate is printed.

If the Rules and/or standards used in the PDA evaluation are revised or if there is a design modification (whichever occurs first), a PDA revalidation may be necessary.

The continued validity of the MA is dependent on completion of satisfactory audits as required by the ABS Rules. The validity of both PDA and MA entitles the product to receive a **Confirmation of Product Type Approval**.

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 prior to the effective date of the ABS Rules and standards applied at the time of PDA issuance. ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. The manufacturer is responsible to maintain compliance with all specifications applicable to the product design assessment. Unless specifically indicated in the description of the product, certification under type approval does not waive requirements for witnessed inspection or additional survey for product use on a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.