



Confirmation of Product Type Approval

Company Name: RKI INSTRUMENTS, INC.

Address: 33248 CENTRAL AVE. CA 94587 United States

Product: Gas Detection and Alarm System

Model(s): EAGLE 2

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	20-2029931-PDA	10-SEP-2020	09-SEP-2025
Manufacturing Assessment (MA)	19-SF3608918	10-JAN-2019	22-JAN-2024
Product Quality Assurance (PQA)	NA	NA	NA

Tier

3

Intended Service

Marine & Offshore Application - Combustible Gas Detection Portable Instrument for use in Hazardous Locations.

Description

Portable Combustible / Toxic Gas Monitors are battery operated and capable of detecting Combustible and Toxic Gases.

Gas Portable Monitor is designed to be capable of making simultaneous detection of up to 6 different gases

Eagle 2 feature includes PPM or LEL Hydrocarbon Detection;

IF (Infrared) Sensors for CO₂ , Methane or Hydrocarbons in LEL or % Volume Ranges;

TC (Thermal Conductivity) Sensors for % Volume of H₂ and CH₄;

PID (Photo Ionization Detector) Sensor for detecting High or Low PPM Levels of VOC Gases.

Ratings

Measuring Range: 0 to 100% LEL;

Operating Temperature: -4°F to 122°F (-20°C to 50°C);

Safety Rating: Intrinsically Safe for Class I, Division 1, Groups A, B, C & D Atmospheres;

Temperature Code: T3C

Service Restrictions

- 1) Unit Certification is not required for this product.
- 2) 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

- 1) The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
- 2) The product marking is to include the information as listed in its CSA Certification.

Notes, Drawings and Documentation

Document No. P028-1902/1000, Gas Detector Model - Eagle 2 Datasheet, Pages: 2

Certificate No. 2172723, CSA Certificate - EAGLE 2 series portable Gas Detection Instrument , RKI Instrument Inc. Issued: 31-March-2010, Pages:1

Certificate No. 2172723, CSA Certificate - EAGLE 2 series portable Gas Detection Instrument , RKI Instrument Inc. Issued: 26-October-2018, Pages:3

Document No. 108228_0_000, CSA Profile of Report, RKI Instruments Inc. Date: 31-March-2010, Pages: 5

Document No. 108338_0_000, CSA Certification Record, RKI Instruments Inc. 4828 01 Portable Combustible Gas Detection Instruments, Dated 31-March-2010, Pages: 2

Document No. 108338_0_000, CSA Certification Record, RKI Instruments Inc. 4828 02 Portable Toxic Gas Detection Instruments, Dated 31-March-2010, Pages: 2

Document No. 2172723, CSA Descriptive Report and Test Results, EAGLE 2 series portable Gas Detection Instrument , RKI Instrument Inc. Edition 6, Issued: 26-October-2018, Pages: 17

RKI Instruments Inc. - Declaration of Conformity, Dated 20-June-2020, Pages: 1

Term of Validity

This Product Design Assessment (PDA) Certificate remains valid until 09/Sep/2025 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 - 2020 Marine Vessels Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following:

Marine Vessels Rules (2020); 4-8-3/1.11, 4-8-3/Table 2, 4-8-3/13.3 , 4-8-4/27.5.1; 5C-8-13/6.3, 5C-13-15/8.5

Rules for Conditions of Classification, Part 1 - 2020 Offshore Units and Structures 1-1-4/9.7, 1-1-A2, 1-1-A3, which covers the following:

Mobile Offshore Units (2020): 4-3-1/15, 17.1, 4-3-3/9.1.2;

Facilities On Offshore Installations (2020): 3-8/7.7, 3-8/7.9

International Standards

NA

EU-MED Standards

NA

National Standards

CSA 22.2 No. 152 - M1984

CAS 22.2 No. 157 - M1992

ANSI / ISA 12.13.01 (2000)

Government Standards

NA

Other Standards

NA



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

Corporate ABS Programs
American Bureau of Shipping
Print Date and Time: 24-Sep-2020 9:57

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.