



CERTIFICATE NUMBER

10-HS614971A-PDA

DATE

19 August 2010

ABS TECHNICAL OFFICE

Houston SED - Ship Systems

# CERTIFICATE OF DESIGN ASSESSMENT

This is to Certify that a representative of this Bureau did, at the request of  
**RKI INSTRUMENTS, INC. - UNION CITY**

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. It will remain valid as noted below or until the Rules or specifications used in the assessment are revised (whichever occurs first).

PRODUCT: Gas Detection and Alarm System

MODEL: EAGLE

ABS RULE: 2010 Steel Vessels Rules 1-1-4/7.7, 4-8-3/1.11, 4-8-3/Table 2, 4-8-4/27

OTHER STANDARD: CSA Certificate 1049700 (LR 108338-2) dtd 19 Jan. 2001, File No: 108338 -0-000 dtd 19 Feb. 2010;

AMERICAN BUREAU OF SHIPPING

Hans P. Haendler

Engineering Type Approval Co-ordinator

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, INC.**

33248 CENTRAL AVE.  
UNION CITY  
CA 94587  
United States  
Telephone: 800-754-5165  
Fax: 510-441-5650

**MA Certificate No.** 09-SF1618646-001

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**Product:** Gas Detection and Alarm System

**Model:** EAGLE

**Intended Service:**

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

**Description:**

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

One to Six Gas Portable Monitor.

Simultaneous detection of up to 6 different gases. Eagle feature includes PPM or LEL hydrocarbon detection; Infrared sensors for CO<sub>2</sub>, Methane or Isobutane in LEL or % volume ranges.

**Ratings:**

Measuring Range: 0 to 100% LEL;

Operating Temperature: -14°F to 104°F (10°C to 40°C);

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

See attached "pdf" for Specification & Feature 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.

**Comments:**

None

**Notes / Drawings / Documentation:**

This Product Design Assessment (PDA) is valid only for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product.

**Term of Validity:**

This product/model is covered under Product Design Assessment (PDA) Certificate # 10-HS614971A-PDA, dated 19/Aug/2010. This PDA Certificate remains valid until 18/Aug/2015 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

**STANDARDS**

**ABS Rules:**

2010 Steel Vessels Rules 1-1-4/7.7, 4-8-3/1.11, 4-8-3/Table 2, 4-8-4/27

**National:**

NA

**International:**

CSA Certificate 1049700 (LR 108338-2) dtd 19 Jan. 2001, File No: 108338 -0-000 dtd 19 Feb. 2010

**Government Authority:**

NA

**REMARKS:**

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**EUMED:**

NA

**Others:**

NA