



**ABS**

CERTIFICATE NUMBER

08-HS394535A/3-PDA

DATE

13 April 2009

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 Detector

MODEL: 61-0140RK, 61-1000RK, 65-2400RK, 65-2400RK-05, 65-2610RK, 65-2610RK-05

ABS RULE: 2009 Steel Vessels Rules 1-1-4/7.7, 4-8-3/1.11, 4-8-3/Table 2, 4-8-4/27

OTHER STANDARD: UL File E180083 dated 20 June 1995; Enclosures: CSA File No.: 011716 C 000 (dated 28 Feb 2003);

AMERICAN BUREAU OF SHIPPING

Hans P. Haendler

Engineering Type Approval Co-ordinator

**RKI INSTRUMENTS, INC.**

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

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**Product:** Gas Detector

**Model:** 61-0140RK, 61-1000RK, 65-2400RK, 65-2400RK-05, 65-2610RK, 65-2610RK-05

**Intended Service:**

Marine & Offshore Application

**Description:**

LEL Sensor; Direct Connect Sensor: 61-0140RK, Direct Connect Sensor w/ Junction Box: 61-1000RK, "S" Series Sensor: 65-2400RK, 65-2400RK-05, M2 Series Sensor: 65-2610RK, 65-2610RK-05; Combustible Gas. Hazardous Areas- Explosion proof for Class I, Division 1, Groups B, C & D atmospheres

**Ratings:**

Measuring Range: 0 to 100% LEL; Temperature: -40°F to 185°F; Temperature Code: T6

**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/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 Design Assessment Certificate number 08-HS394535A/3-PDA, dated 13/Apr/2009 will expire on 12/Apr/2014 or at an earlier date should there be alterations to the product's design or changes to the referenced ABS Rules and other specifications, which affect the product. Product use on or after 1 January 2010, will be subject to compliance with the ABS Rules or specifications in effect when the vessel, MODU or facility is contracted. The product's acceptability on board ABS-classed vessels or facilities is defined in the service restrictions of this certificate.

**STANDARDS**

**ABS Rules:**

2009 Steel Vessels Rules 1-1-4/7.7, 4-8-3/1.11, 4-8-3/Table 2, 4-8-4/27

**National:**

UL File E180083 dated 20 June 1995

**International:**

Enclosures: CSA File No.: 011716 C 000 (dated 28 Feb 2003)