



CERTIFICATE NUMBER

DATE

08-HS394535B/3-PDA

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: 65-2514 RK, 65-2515RK, 65-2516RK & 65-2613RK-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: Enclosure: UL Listed (E83969), UL 1203, 3rd Ed; CSA Standard C22.2 No. 0-M91, 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

Product: Gas Detector

Model: 65-2514 RK, 65-2515RK, 65-2516RK & 65-2613RK-05

Intended Service:

Marine & Offshore Application

Description:

Oxygen Sensor; Direct Connect Sensor: 65-2514 RK, Direct Connect Sensor w/ Junction Box: 65-2515RK, "S" Series Sensor: 65-2516RK, M2 Series Sensor: 65-2613RK-05; CSA Class I, Division 1, Groups B, C & D; To be used with the RKI controller or with explosion proof junction boxes for remote detection; 65-2514 RK oxygen detector assembly is comprised of an explosion-proof enclosure, internal electronics, and an oxygen sensor.

Ratings:

Maximum signal output of 20 mV/120 uA in 21% O2 atmosphere; Operating Temperature: -20°C to 45°C, 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:

CSA Report 1166838 (LR108338) 23 March 2006; Reference Manufacturer's Operation Manual for proper installation.

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-HS394535B/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:

Enclosure: UL Listed (E83969), UL 1203, 3rd Ed

International:

CSA Standard C22.2 No. 0-M91, Enclosures: CSA File No.: 011716 C 000 (dated 28 Feb 2003)