



CERTIFICATE NUMBER
13-GE975317-PDA

DATE
12 February 2013

ABS TECHNICAL OFFICE
ITALY TECH

CERTIFICATE OF DESIGN ASSESSMENT

This is to Certify that a representative of this Bureau did, at the request of
RECOM INDUSTRIALE SRL - GENOA

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.

PRODUCT: Gas Detection and Alarm System

MODEL: EXPLORER 4

This Product Design Assessment (PDA) Certificate 13-GE975317-PDA, dated 12/Feb/2013 remains valid until 11/Feb/2018 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product.

Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA.

Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.

AMERICAN BUREAU OF SHIPPING

Giorgio Barbini
Engineer

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-A/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010).

RECOM INDUSTRIALE SRL

VIA PIETRO CHIESA 25R

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Italy

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Product: Gas Detection and Alarm System

Model: EXPLORER 4

Intended Service:

Marine Shipboard and Offshore application

Description:

Multi-channel microprocessor controlled gas detection system for the continuous monitoring of explosive and/or toxic gases.

Ratings:

Power supply: 24Vdc / 110-220Vac with transformer

Rack for 4-8-16 channels

Service Restrictions:

Unit Certification is not required for this product.

Comments:

Each installation is to be specifically approved (relevant system configuration drawings are to be submitted to an ABS Technical Office for approval).

Notes / Drawings / Documentation:

Operation and Installation Manual for EXPLORER 4 dated December 2007 / Rev.1.0

TesLab Test Report No.061008E dated 26 July 2006

TesLab Test Report No.061008F dated 26 July 2006

TesLab Test Report No.061008S dated 26 July 2006

Narda Test Report No.CMR M-017/12 dated 12 September 2012

ATEX Certificate ISSeP No.ISSeP12ATEX003X dated 02 February 2012

Explorer Sensor Assembly Drawing

Explorer Junction Box Drawing

Explorer Rack View Drawing

Explorer Wiring Drawing

Installation and Service Manual for Sensor/Transmitter 4-20 mA for Explosive Gases

Installation and Service Manual for Sensor/Transmitter 4-20 mA for Toxic Gases

Data Sheet for 7H sensors dated 22 April 2002 Issue 3.6

Data Sheet for 7HH sensors dated 14 February 2005 Issue 3.9

Data Sheet for 7OX-V sensors dated 19 October 2004 Issue 1.2

Data Sheet for E2V technologies VQ1 No.A1A-VQ1 dated September 2002 Issue 3

Data Sheet for E2V technologies VQ21T Series No.A1A-VQ21 Series dated September 2002 Issue 3.

Term of Validity:

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STANDARDS

ABS Rules:

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product. The Rules applicable to this assessment are: 2013 Steel Vessel Rules 1-1-4/7.7, 1-1 Appendix 3 and 4-9-7/13, 4-9-7/Tables 9 & 10, 5C-1-7/17.9, 5C-8-13/6, 5C-9-13/2 and 2012 MODU Rules 1-1-4/9.7, 1-1 Appendix 2 and 6-1-8/9.

National:

NA

International:

NA

Government Authority:

NA

EUMED:

NA

Others:

NA