



**BUREAU  
VERITAS**

Marine & Offshore  
Division

Certificate number: 39093/A0 EC

File number: AP 4537

Annex A1 Item number: A.1/3.30

*This certificate is not valid when presented without the full  
attached schedule composed of 7 sections  
www.veristar.com*

Notified Body 0062 - MARINE EQUIPMENT DIRECTIVE 96/98/EC

## EC TYPE EXAMINATION CERTIFICATE

*as per Module B of European Union Council Directive 96/98/EC on marine equipment  
as amended by Commission Directive 2012/32/EU*

*This certificate is issued to*

**RIKEN KEIKI CO., LTD.**

Tokyo - JAPAN

*for the type of product*

**PORTABLE OXYGEN ANALYSIS AND GAS DETECTION EQUIPMENT**

Portable gas detector, RX-8000

### Requirements:

SOLAS 74 convention as amended, Regulations II-2/4, VI/3.

IMO Res. MSC.98(73)-(FSS code)- as amended, 15

EN 60945 (2002) incl. /Corr. 1 (2008)

IEC 60092-504 (2001) incl. /Corr. 1 (2011), IEC 60533 (1999)

EN 50104 (2010)

IEC 60079-0 (2011), EN 60079-11 (2012), EN 60079-29-1 (2007).

*This certificate is issued on behalf of the french maritime administration to attest that BUREAU VERITAS did undertake the relevant type-examination procedures for the product identified above which was found to comply with the relevant requirements of the Council Directive 96/98/EC of 20 December 1996 as amended.*

**This certificate will expire on: 06 Nov 2019**

**For BUREAU VERITAS Notified Body 0062,**

At BV KOBE, on 06 Nov 2014,

Yasuo Hiramatsu



**This certificate does not allow to issue the Declaration of Conformity and to affix the mark of conformity (wheelmark ) to the products corresponding to this type. To this end, the production-control phase module (D, E or F) of Annex B of the Directive is to be complied with and controlled by a written inspection agreement with a notified body.**

This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with BUREAU VERITAS. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. BUREAU VERITAS is designated by the French Maritime Authority as a "notified body" under the terms of the French Regulations Division 140 Chapter 140-2. This certificate is issued within the scope of the General Conditions of BUREAU VERITAS Marine & Offshore Division available on the internet site [www.veristar.com](http://www.veristar.com). Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against BUREAU VERITAS for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

## THE SCHEDULE OF APPROVAL

### 1. PRODUCT DESCRIPTION :

Portable GAS DETECTOR Models : RX-8000

Model: RX-8000

Detection Gas	Combustibles (i-C <sub>4</sub> H <sub>10</sub> or CH <sub>4</sub> calibration)	Oxygen (O <sub>2</sub> )
Detection principle	Non-Dispersive Infrared Flay	Galvanic cell
Detection range	0-100vol %      0-100% LEL (0.5vol %)      (0.5% LEL)	0-40% (0.1%)
Response Time	T90 within 30sec	T90 within 20sec
Operating temp & Humidity	-20 ~ +50°C (-4 ~ +122 °F)	
Power Source	Lithium-ion battery (3 hours for a full charge)	; Standard
Explosion proof	II 1G Ex ia IIC T4 Ga	

### 2. DOCUMENTS AND DRAWINGS :

**Dekra:**

- Ex Certificate No. DEKRA 13ATEX0228 Issue 1, dated 12 June 2012.

**Riken Keiki:**

- Data Sheet Portable Gas Detector, Ref. C0E-0700, dated 2014-05-20
- Operating Manual Portable Gas Detector, Ref. PT0E-1190, dated 2014-06-18
- Complete Drawings (RX-8000) - Rev.4, dated 2014-06-11.

### 3. TEST REPORTS :

- EMC Test Report No. TR-14001, dated April 22, 2014, witnessed by a Society's Surveyor.
- Environmental Test Report No. 570H 14013, dated July 03, 2014, witnessed by a Society's Surveyor.
- TypeTest Report No. 570H 14012, as per 60079-29-1, dated April 09, 2014, witnessed by a Society's Surveyor.

### 4. APPLICATION / LIMITATION :

- 4.1 - The Manufacturer's instruction manual should be kept on board.
- 4.2 - As per Requirements of Regulations stated on the front page of this certificate.

### 5. PRODUCTION SURVEY REQUIREMENTS :

This certificate does not allow the applicant to issue the Declaration of Conformity and to affix the mark of conformity (wheelmark) to the products corresponding to this type. To this end, the production-control phase module D "Production Quality Assurance" or E "Product Quality Assurance" or F "Product Verification" of Annex B of the Directive is to be complied with and controlled by a written inspection agreement with a Notified Body.

### 6. MARKING OF PRODUCT :

6.1 - According to EN 60079-29-1

6.2 - Marking as per MED 96/98/EC :

⊗ YYYY/XX where YYYY is the number of the Notified Body undertaking surveillance module (when BV, 0062) and where XX are the last two digits of year mark affixed.

### 7. OTHERS :

This approval is given on the understanding that the Society reserves the right to require check tests to be carried out on the unit at any time, and that: **RIKEN KEIKI CO., LTD., (Japan)**, will accept full responsibility for informing shipbuilders, ship-owners or their sub-contractors of the proper methods of use and general maintenance of the units and the conditions of this approval.

\*\*\* END OF CERTIFICATE \*\*\*