



Marine &amp; Offshore

Certificate number: 39093/C0 MED

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This certificate is not valid when presented without the full attached schedule  
composed of 7 sections  
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Notified Body 2690 - MARINE EQUIPMENT DIRECTIVE 2014/90/EU

## EC TYPE EXAMINATION CERTIFICATE

as per Module B of Directive 2014/90/EU of the European Parliament and of the Council of 23 July 2014 as transposed in the French Regulations and Commission Implementing Regulation (EU) 2020/1170 of 16 July 2020

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 by MSC.206(81), MSC.217(82), MSC.292(87), MSC.311(88), MSC.327(90), MSC.339(91) and MSC.457(101), 15

EN 60945:2002 incl. /Corr.1:2008

IEC 60092-504:2016

IEC 60533:2015

EN 50104:2010,

EN 60079-29-1:2016, EN IEC 60079-0:2018, EN 60079-1:2014, EN 60079-10-1:2015, EN 60079-11:2012, EN 60079-15:2010,

EN 60079-26:2015

IMO MSC.1/Circ.1477 and IMO MSC.1/Circ.1581

This certificate is issued on behalf of the French Maritime Authorities to attest that Bureau Veritas Marine & Offshore did undertake the relevant type-examination procedures for the product identified above which was found to comply with the relevant requirements of the Directive 2014/90/EU of the European Parliament and of the Council of 23 July 2014 as transposed in the French Regulations.


**This certificate will expire on: 12 Jun 2024**

**For Bureau Veritas Marine & Offshore Notified Body 2690,**

At BV KOBE, on 15 Jul 2021,

Shinichi Takemoto



**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 II 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 Marine & Offshore. 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 Marine & Offshore 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 available on the internet site 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 Marine & Offshore 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 :**

Product model or type description:

- **Model: RX-8000**

Product description:

- **Portable GAS DETECTOR**

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 :**

**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.
- RX-8000 Manufacture's statement Ref.: CDE 19045, dated May 28, 2019.

### **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.

**JQA:**

- Test Report for RX-800(BUL\_HC), No. 400-180139, dated 13-05-2019.
- Test Report for RX-800(HC\_BUD), No. 400-180127, dated 13-05-2019.
- Test Report for RX-800(BUL\_CH4), No. 400-180125, dated 13-05-2019.
- Test Report for RX-800(BUD\_CH4), No. 400-180126, dated 13-05-2019.

**DEKRA:**

- Test report PFG-no. 41500419P, dated 07-05-2019.

**For Modification C0 version:**

**DEKRA:**

- Ex Certificate No. DEKRA 13ATEX0228 Issue 3, dated 07-07-2020.

### **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.
- 4.3 - IEC 60079-1:2014, IEC 60079-10-1:2015, IEC 60079-15:2010, IEC 60079-26:2015 are not applicable to the above products.
- 4.4 - Ex certification is not covered by this certificate, Applications in hazardous areas are to be approved in each case according to the Rules and Conditions for Safe Use specified in a valid Ex-Certificate issued by a Notified or Recognised Certification Body.
- 4.5 - The following component(s) shall comply with the requirements of MED2014/90/EU, as amended, and be wheelmarked:
  - RX-8000.

**5. PRODUCTION SURVEY REQUIREMENTS :**

5.1 - This certificate alone 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 module E Product Quality Assurance or module F Product Verification of Annex II of the Directive is to be complied with and controlled by a written inspection agreement with a Notified Body.

5.2 - For information concerning the production phase modules, **RIKEN KEIKI CO., LTD.** has declared the following manufacturing site(s):

**RIKEN KEIKI CO., LTD.**  
**2-7-6, Azusawa, Itabashi-ku**  
**174-8744 Tokyo**  
**JAPAN**

**6. MARKING OF PRODUCT :**

- According to EN 60079-29-1

- Reference is made to MED 2014/90/EU chapter 2.

- In particular Article 10.3 specifies that the wheelmark shall be followed by the identification number of the Notified Body involved in the production control phase (module D, E or F) and by the year in which the mark is affixed (4 digits or last 2 digits).

**7. OTHERS :**

7.1 - It is **RIKEN KEIKI CO., LTD.**'s responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

7.2 - This certificate supersedes the EC Type Examination Certificate No. 39093/B1 MED issued on 01 Dec 2020 by the Society.

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