



**EC TYPE EXAMINATION (MODULE B)
CERTIFICATE No. MED160224CS/002**

This is to certify that RINA Services S.p.A. (Notified Body No. 0474) did undertake the relevant type approval procedures for the equipment identified below, which was found to be in compliance with the Fire Protection requirements of Marine Equipment Directive (MED) 2014/90/EU, including the requirements and testing standards of Regulation (EU) 2023/1667.

<i>MED Item N°</i>	MED/3.54a
<i>Description</i>	Fixed oxygen analysis and gas detection equipment: (a) category 4 - safe area
<i>Type</i>	Sensors RTE 1001 - RTE 1003 - RTE 1004
<i>Applicant</i>	RECOM INDUSTRIALE S.R.L. VIA PIETRO CHIESA 25 R 16149 GENOVA (GE) ITALY
<i>Testing standards</i>	EN 50104:2019, IEC 60092-504:2016, IEC 60533:2015, For combined O 2/HC systems, additionally: IMO MSC.1/Circ.1370.
<i>Reference standards</i>	SOLAS Reg. II-2/4, SOLAS Reg. VI/3, IMO Res. MSC.98(73)-(FSS Code) 15. For combined O 2/HC systems additionally: IMO MSC.1/Circ.1370.

Issued in GENOVA *on*
June 3, 2024

This Certificate is valid until
June 3, 2029

This Certificate consists of this sheet plus an attachment

Luigi Benedetti

RINA Services S.p.A.



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Manufacturer

RECOM INDUSTRIALE S.R.L.

Place of Manufacturer

VIA PIETRO CHIESA 25 R
16149 GENOVA (GE)
ITALY

Product Main Features:

- Maximum Nominal Current Consumption: 0.125 A
- Maximum Rated Voltage: 12-28V
- Temp. Range operating range: -20 ° C / + 55 ° C
- Operating humidity range: 0% to 95% relative humidity (non-condensing)
- Pressure range: Atmospheric +/- 10%
- Power consumption: 3 W
- Dimensions: 155 (H) x 73 (P) x 101 (W) mm
- Weight: 620 gr.

Note:

The sensor body must always be installed in a vertical position with the sensitive element housing (nose) facing downward.

Choose the installation point at a suitable height according to the specific weight of the gas that the sensor must control. If installed outdoors, choose a location with protection from dust and protection against direct exposure to sunlight and rain.

The direct exposure of the sensor housing to sunlight can bring the temperature inside the box to values higher than the maximum allowed which is + 55 ° C.

Reference Documents

- Former RINA certificate MED159720CS dated 17/02/2021
- Operating / Installation and maintenance manual for P.N. 1001760 / 1001800 / 1001780 Rev. 2.0 (RTE 1001 / RTE 1004 / RTE 1003) - "TOX Sensitive Element"- RINA id. n. ELET-35017
- Risk Assessment Analysis dated 16/04/2020 - RINA id. n. ELET-34413

Test reports:

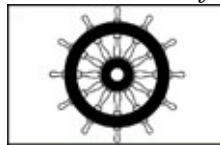
- TesLab Environmental Test Reports n° TesLab n. 061008F dated 26/07/2006, n. 201006E dated 26/02/2020 - RINA id. n. ELET-34421, ELET-34417
- Technical report of testing CEI EN600079-29-1 / CEI 50104 - RINA id. n. ELET-34422



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The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production control phase module (D, E or F) of Annex II of the Directive is fully complied with a written inspection agreement with a Notified Body



XXXX/YYYY

"WHEELMARK FORMAT"

XXXX *Notified Body number undertaking surveillance module*
YYYY *The year in which the mark is affixed*

General conditions for the approval

- a) The initial conditions verified by RINA at the time of the approval are to be maintained
- b) Any changes to the initial conditions are to be promptly communicated to RINA, which reserves the right to repeat the relevant assessment
- c) This certificate will not be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with RINA
- d) RINA personnel are to be allowed to witness during the performances of activities, upon their request
- e) The activities are to be carried out in compliance with the RINA Rules and/or other applicable Rules
- f) Should the specified regulations or standards be amended during the validity of this certificate, the product is to be reapproved prior to it being placed on board vessels to which the amended regulations or standards apply.

Luigi Benedetti

RINA Services S.p.A.