



**EC TYPE EXAMINATION (MODULE B)
CERTIFICATE No. MED453121CS**

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) 2021/1158.

<i>MED Item N°</i>	MED/3.54b
<i>Description</i>	Fixed oxygen analysis and gas detection equipment: (b) category 3 - explosive gas atmospheres
<i>Type</i>	Explorer 4
<i>Applicant</i>	RECOM INDUSTRIALE S.R.L. VIA PIETRO CHIESA 25 R 16149 GENOVA (GE) ITALY
<i>Testing standards</i>	EN 50104:2019, EN IEC 60079-0:2018 incl. AC:2020, EN 60079-29-1:2016, IEC 60092-504:2016, IEC 60533:2015, for combined O2/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.
<i>Issued in GENOVA on</i> June 23, 2022	<i>This Certificate is valid until</i> June 23, 2027

This Certificate consists of this sheet plus an attachment

Luigi Benedetti

RINA Services S.p.A.



ATTACHMENT TO
CERTIFICATE No. MED453121CS

Page 1 of 2

Manufacturer

RECOM INDUSTRIALE S.R.L.

Place of Manufacturer

VIA PIETRO CHIESA 25 R
16149 GENOVA (GE)
ITALY

Product description:

The Explorer4 analyzer is a multi-channel, microprocessor controlled gas detection system, designed for the continuous monitoring of gas and other parameters, composed by:

Main features:

Case	Rack for 4 – 8 – 16 channels
Power supply	12 VDC / 110 – 220 VAC with transformer
Display	LCD 2x16 digit
Analog input signals	2 for each channel (0÷10 V / 4÷20 mA)
Digital Input signals	RS 232 / Bus / I/O / PC
Visual alarm	4 LED for each channel (1 fault and 3 alarm levels) + 1 LED for power
Output alarms	4 output for each channel (1 for level) 1 fault relay
Analog input signals	2 for each channel (0÷10 V / 4÷20 mA)
Alarms	3 levels, from 0 to 100% F.S. Fault and alarm disconnection sensor 3 relays for each channel
Measure point range	% or ppm - 8bit configurable
Buzzer Alarm	1 buzzer activated in case of alarm
Key pads	3 multi function keys
Operative Temperature	-20°C to +55°C
Humidity	0% to 95% HR (non-condensate)
Battery	Optional
Programming	Languages menu: English, Italian, French, Spanish, German, Portuguese (others on request) average of the reading time, sampling time, kind of alarm (beeps or continuous)

Suitable to work in conjunction with:

1001700 102111 RTC 1001 Combustible Gas Sensor Transmitter 0-100%LEL VQ-01 ATEX Z1
1001710 102154 RTC 1002 Combustible Gas Sensor Transmitter 0-100 %LEL VQ-21 PR ATEX Z1
1001760 102302 RTE 1001 Oxigen Sensor Transmitter 0-30%
1001800 102311 RTE 1004 H2S Sensor Transmitter
1001780 102306 RTE 1003 CO Sensor Transmitter

Programming of parameters (gain, offset, full scale, alarm levels (3), fault of the sensors, etc.) makes it possible to check any measurement detectable with sensors 0÷10 V or 4÷20 mA.

**ATTACHMENT TO
CERTIFICATE Nr. MED453121CS
Page 2 of 3**

Reference Documents

- Operation / Installation Manual for EXPLORER 4 Gas Sampling System issued December 2007 rev.1.0
- former RINA mod. B MED certificate n° MED272113CS dated 02/05/2016

Test reports:

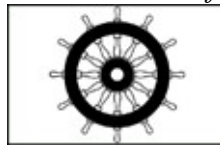
TesLab Test Report n° 222026E dated 01/03/2022



**ATTACHMENT TO
CERTIFICATE No. MED453121CS**

Page 3 of 3

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 no 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