

TYPE APPROVAL CERTIFICATE

No. **ELE272113CS**

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Explorer 4

Test Carried Out

Simulation of gas detection in compliance with CEI EN60079-29-1 and CEI EN 50104

Note

For each specific installation on board, the system configuration drawings are to be always sent for approval. The test of the system will be carried out with simulation of functionality in normal, emergency and single failure condition.

Final acceptance of the system is subject to the good result of functional test to be carried out on board.

Genoa September 4, 2015





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No. **ELE272113CS**

This is to certify that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

<i>Description</i>	Automatic gas detection system
<i>Type</i>	Explorer 4
<i>Applicant</i>	RECOM INDUSTRIALE S.R.L. VIA PIETRO CHIESA 25 R 16149 GENOVA (GE) ITALY
<i>Manufacturer</i>	RECOM INDUSTRIALE S.R.L.
<i>Place of manufacture</i>	VIA PIETRO CHIESA 25 R 16149 GENOVA (GE) ITALY
<i>Reference standards</i>	Rules for the Classification of Ships - Part C - Machinery, Systems and fire protection - Ch.3, Sect.6, Tab.1.

Issued in **Genoa** on **September 4, 2015**. This Certificate is valid until **September 4, 2020**

RINA Services S.p.A.
Valerio Bonanni

This certificate consists of this page and 1 enclosure



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Explorer 4

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:

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.

Reference Documents

- Operating / Installation Manual for EXPLORER 4 Gas Sampling System issued Gennuary 2006 ver.1.0
- Environmental Test report TesLab n° 061008F dated 26-07-06
- RECOM functional test reports dated 15/6/2015 in compliance with CEI EN 60079-29-1 and CEI EN 50104

