

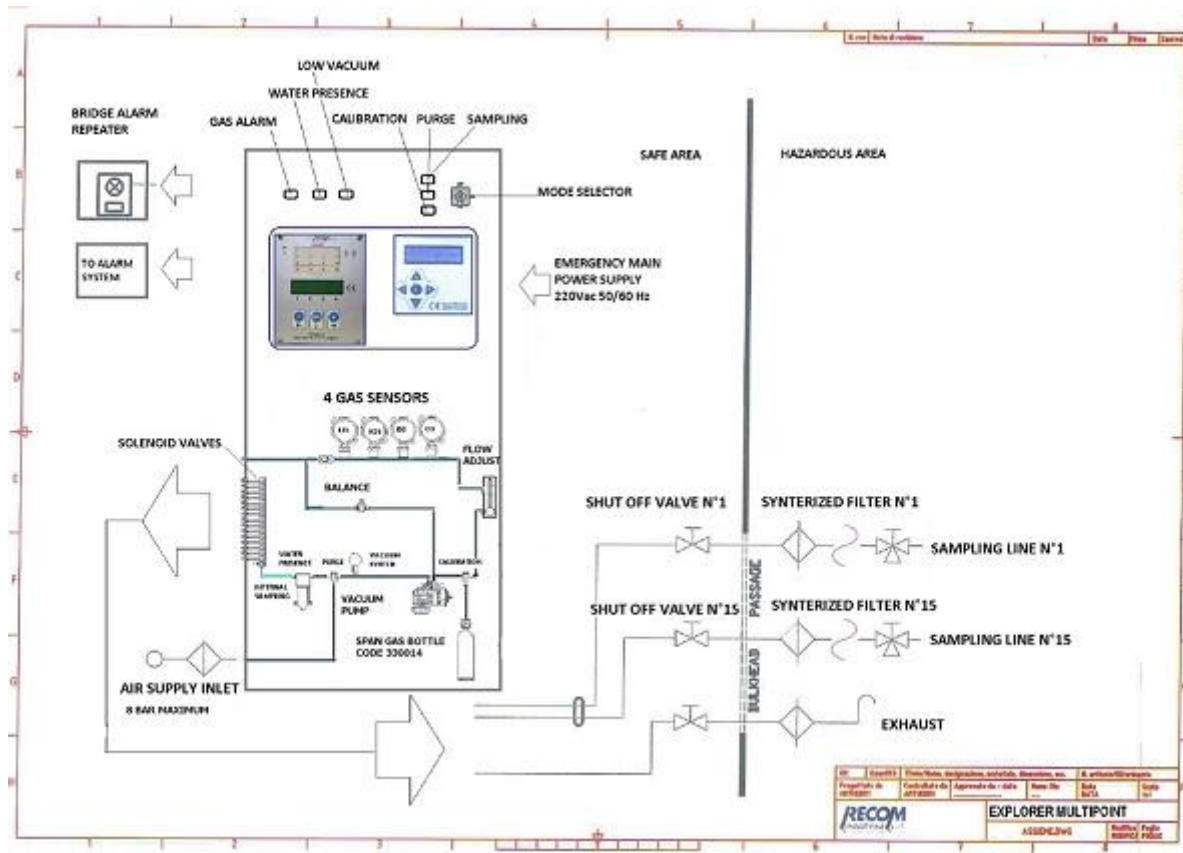


EXPLORER 4 MULTIPOINT



Sampling gas analyser

EXPLORER 4 MULTIPOINT is a sampling gas analyser, with 4 gas detection sensors (LEL, H₂S, O₂, CO) reliable and in accordance of the Rules with 15 sampling points + 1 Internal sampling point.



RECOM INDUSTRIALE srl

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As illustrated on above general layout, the Explorer 4 Multipoint gas detection system is essentially composed by:

Control & Sampling panel

Alarm repeater



Control panel

It is a panel to be installed in Cargo Control Room with the LEL , H2S, O2 and CO measure and alarm indication, the push buttons for sequence control and the optic and acoustic alarms.

Inside the panel are installed the auxiliary / alarm control circuits and the sequencer.

There are 3 main functions:

1. Sampling
2. Purge
3. calibration

With the control panel, it is possible to visualise the gas concentration, to set a manual sequence, to choose the alarm set point, to purge the lines, to stop the sequence in case of presence of water or for high % gas content , to switch in calibration mode for adjust a perfect calibration of the analyser.

The sampling panel is equipped with a 4 gases span gas bottle for periodical calibrations.

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MAIN PANEL INSIDE VIEW:

The LEL, H2S, O2 and CO sensors with flow regulator

The sensor for water detection in the lines

The sampling solenoid valves

The purge solenoid valve

The calibration solenoid valve

The vacuum pump with the sensor for too low vacuum

Provided with a gas content self detecting point.

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In case of gas content abnormal inside the panel the system automatically give alarm and shuts down.



Alarm Repeater

It is a non-acknowledgeable optic and acoustic alarm repeater to install on bridge deck.



LEL Gas Detector

4-20 mA Transmitter and RS485 MODBUS RTU

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Continuous monitoring gas detectors

Continuous monitoring of combustible gases (%LEL), Exd classified Areas.
 The internal display helps the periodic control procedures, the tests, the calibration.
 Range and Sensor setting, watertight, diecast aluminum enclosure.

ATEX Certification

Marine Approval

Certifications:
ATEX – R.I.N.A – ABS

Easy to calibrate

Internal display

30 correction selecting factors

Automatic calibration and setting with function buttons and display



Range	0 ÷ 100 % LEL 0 ÷ 100 % vol.
Sensor	Catalytic: VQ01-VQ21-VQ25 Termoconducibilità: VQ6
Sensitivity	1%
Linearity	100%
Connection	4/20 mA /RS485 MODBUS RTU
Power supply	24 Vcc
Operating temperature	- 20° ÷ + 55° C
Protection level	IP 6X
Reading time	T 90 < 25 sec
Connection type	3 wires
measurement	Diffusion
Display	Internal 7 segments 4-digit LCD
Certifications	ATEX II G Ex D IIC T6 Gb R.I.N.A (Italian Marine Register) ABS (American Boureau of shipping)



Toxic gases and O₂ Gas Detectors

4-20 mA Transmitter and RS485 MODBUS RTU

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Continuous monitoring gas detectors

They permit to monitor in continuous toxic gases and O₂, inside classified Exd Areas. The inside display permits the periodic procedures of checks, tests and calibration. Watertight, die-cast aluminum container that matches to ATEX specific details.

Certifications:
 ATEX – R.I.NA – ABS

Simple to calibrate

Inside Display

30 correction selecting factors

Automatic Calibration and setting with function buttons and display



Sensor	Elettrochemical
Sensitivity	1% - 1/0,1 ppm
Linearity	100%
Connection	4/20 mA /RS485 MODBUS RTU
Power supply	24 Vcc
Operating temperature	- 20° ÷ + 55° C
Protection level	IP 6X
Reading time	T90 <25 sec
Connection type	2 wires
Measurement	Diffusion
Display	Internal 7 segments, 4-digit LCD
Certificazioni	ATEX II G Ex D IIC T6 Gb R.I.NA (Italian Marine Register) ABS (American Boureau of shipping)

Gas	Range (ppm)	Risolution (ppm)	Code
Oxigen O ₂	0 ÷ 30 %vol.	0,1%	102302
Oxigen O ₂ KE25	0 ÷ 100 %vol.	0,1%	102301
Carbon monoxide CO	0 ÷ 2.000	1	102306
Hydrogen sulfide	0 ÷ 200 / 1.000	0,1	102311
Nitrogen oxide NO	0 ÷ 100	0,1	102351
Nitrogen bioxide NO ₂	0 ÷ 20	0,1	102331
ammonia NH ₃	0 ÷ 100	0,1	102392
Sulphur SO ₂	0 ÷ 100	0,1	102322
Chlorine Cl ₂	0 ÷ 50	0,1	102341
Ethylene oxide EtO	0 ÷ 100	0,1	102401
Cianidric acid HCN	0 ÷ 100	0,1	102371

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