



EXPLORER



Single channel, multi channel
and stand alone systems.
For the monitoring of combustibile,
toxic gases, oxygen,
and other parameters

RECOM
INDUSTRIALE s.r.l.



Recom Industriale s.r.l., an ISO 9001:2000 certified company, has been active in the safety market for over 10 years producing instrumentation and related technology.

The Company is flexible in its structure, and directly manages the activities of

R&D and documentation.

The Fixed Gas Detectors systems are adaptable to all types of applications and industrial sectors, such as Oil & Gas industry, Shipping, Laboratories of analysis and research.

Recom has the in-house ability to customize system solutions.

The Sale Network is present in Italy and over 10 other countries.

The SAT (Service Technical support) offers a complete solution, providing prompt and reliable support, maintenance and after sales care.

The Recom Industriale s.r.l.'s mission is to achieve the following goals:

- Continual product appraisal and improvement.
- Continuous and consistent quality control.
- Optimization of customer service and the minimization of response times.

The **RECOM** staff are always ready to provide the best advice and quality of care, to the satisfaction of their customers. seek the best quality and the satisfaction of the customers.



Detectable Gases

Compound	Sensor type	Range	Certification
Combustible gases and vapours	Catalytic	0-100% LEL	ATEX
Hydrocyanic acid HCN	Electrochemical	0-100 ppm	ATEX
Nitrogen dioxide NO ₂	Electrochemical	0-20 ppm	ATEX
Chlorine dioxide ClO ₂	Electrochemical	0-1 ppm	ATEX
Hydrogen H ₂	Electrochemical	0-1000 ppm	ATEX
Hydrogen sulphide H ₂ S	Electrochemical	0-50 ppm	ATEX
Nitric oxide NO	Electrochemical	0-100 ppm	ATEX
Carbon monoxide CO	Electrochemical	0-300 ppm	ATEX
Ethylene oxide C ₂ H ₄ O	Electrochemical	0-20 ppm	ATEX
Oxygen O ₂	Electrochemical	0-30% Vol	ATEX
Hydrochloric acid HCl	Electrochemical	0-100 ppm	ATEX
Hydrofluoric acid HF	Electrochemical	0-10 ppm	ATEX
Ammonia NH ₃	Electrochemical	0-100 ppm	ATEX
Sulphur dioxide SO ₂	Electrochemical	0-20 ppm	ATEX
Chlorine Cl ₂	Electrochemical	0-20 ppm	ATEX
Fluorine F ₂	Electrochemical	0-1 ppm	ATEX
TBM	Electrochemical	50 mg/m ³	
THT	Electrochemical	50 mg/m ³	
Carbon dioxide C	Infra-red	0-1%; 0-10%; 0-20%;0-100%	
Hydrocarbons HC	Infra-red	0-100 % Vol	
Methane CH ₄	Infra-red	0-100% Vol	

EXPLORER GasScreen

The **Explorer Gas Screen 160** allows the **continuous monitoring of n° 16 channels 4-20mA and 256s points RS485** useable for combustible gases detectors (% LEL and/or VOL), oxygen (% O₂) and toxic (ppm) gases. The calibration, the configuration of the parameters and the sensors setting, is quick and easy via the multi-colour touch screen display.

• Easy to install

The case is independent from the wall mounting plate. Once connected to a power supply (220Vac/24 Vdcs), the Gas Screen is ready to use.

• Display

The **back lit, graphic colour touch screen displays** in real time, the measure, the unit and the type of gas.

In configuration mode, the LCD displays the selectable functions on the screen providing the user with a simple and functional menu. 2 languages are available (Italian / English). There are three Led alarm lights for each channel.

• Versatility

The configuration of the gain, of the offset, of the span, of the alarms thresholds (two per channel), of the average of acquisition, as well as the management of the breakdown on the sensor, allows the use of the **Explorer Gas Screen in a wide range of applications** where are requested catalytic (for flammable gases), galvanic (for oxygen) and electrochemical (for toxic gas) sensors. The power supply board works perfectly even if the power supply line is not stable.

• Modularity

The **Explorer Gas Screen** is modular and can be configured with boards of 2 channels up to 8 boards per unit. The plug and play connection allows the removal or installation (connection?) of the boards in a very easy way.

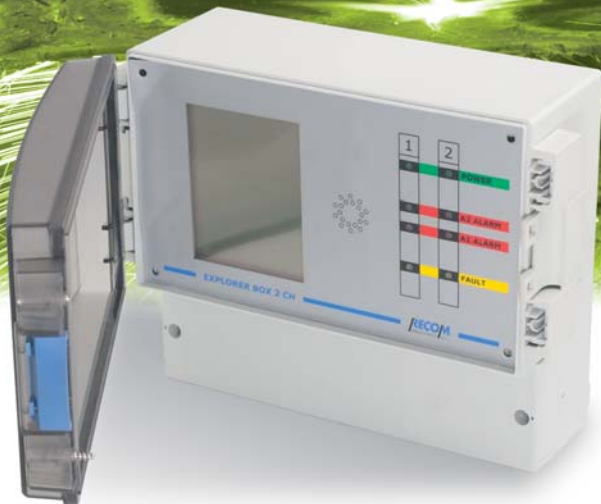
• Connections

The **Explorer Gas Screen 160** is a receiver/repeater in which every channel can be configured as follows:

- Direct connection for Combustible gases Sensor LEL%.
- Combustible gases Sensor LEL% with transmitter 4-20 MA (three wires).
- Oxygen and toxic gas Sensors with transmitter 4-20 MA (two wires).
- Transmitters of LEL%, oxygen and toxic gas with port RS485 up to 256.
- Retransmission Input signal.

• Wireless

The unit is predisposed for the local wireless connection or GPRS through an optional card; the Internet connection is available using the Ethernet port.



Explorer Box 2 CH allows the continuous monitoring of 2 channels 4-20mA useable for detectors of combustible gases (% LEL and/or VOL), oxygen (% O₂), toxic (ppm) gases. The calibration, the configuration of the parameters and the sensors setting, is quick and easy via a **multi-colour touch screen display**.

• Easy to install

The case is independent from the wall mounting plate. Once connected to a power supply (220Vac/24 Vdcs), and the **Explorer Box 2 CH** is ready to use.

• Display

The backlit, graphic colour, touch screen displays, in real time, the measure, the unit and the type of gas with great segments readable from some meters. In configuration mode, the LCD displays the selectable functions on the display, providing the user in simple and functional menu. 2 languages are available (Italian / English). There are Led alarm lights for each channel.



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• Versatility

The configuration of the gain, of the offset, of the span, of the alarms thresholds (two), of the average of acquisition, as well as the management of the breakdown on the sensor, allows the use of the **Explorer Box 2 CH** in all the applications where requested for catalytic (for flammable gases), galvanic (for oxygen) and electrochemical (for toxic gas) sensors.

The power supply board works perfectly even if the power supply line is not stable.

• Connections

The **Explorer Box 2 CH** is a control unit in which every channel can be configured as follows:

- **Direct connection for Combustible gases Sensor LEL%.**
- Combustible gases Sensor LEL% with transmitter 4-20 MA (three wires).
- Oxygen and toxic gas Sensors with transmitter 4-20 MA (two wires).
- **Transmitters of LEL%, oxygen and toxic gas with port RS485 up to 16.**
- **Retransmission Input Signal.**

EXPLORER Box 2

EXPLORER GasPoint

The **Gas Point** is an economical, microprocessor-based gas detector for continuous monitoring of toxic gases, oxygen or flammable gases.

Non-intrusive calibration and maintenance is performed using a magnetic wand to access the software through the casing window - no need to open the casing (and obtain special area permits) to perform routine calibrations.

• Easy to install

The enclosure provides two mounting holes.

• LCD graphic display

The backlit LCD graphic display shows the gas concentration, the unit and the gas name. No need for an additional handheld terminal for calibration.

The display can also show the concentration in a bar graph format.

The alarm and the fault signal are indicated by three flashing bright red Led. Led.

• Calibration and maintenance

Calibration procedure is fully automatically, and it is non-intrusive by the magnetic wand. A new spare sensor can be easily changed by the factory pre calibrated interface.

• Versatility and reliability

In the programming mode it is possible to change the gain, the offset, alarm thresholds, the average, the full-scale value, the sensor fail event.

So, it is possible to use the same control unit with all catalytic, galvanic or electrochemical-sensors. High sensitivity, long-term stability and no false alarms are the hallmark of the new and improved sensors.

Fastest response to the target gas combined with minimal interference by other gases and other environmental influences, as well as the lifetime of the sensor determines the reliability and the operating cost of a system.

Moreover, **Gas Point** has an analog 4-20 mA output, for remote control or to transmit the alarm signal.

Integrated control on the power supply assures the correct work in the case of unstable voltages.

**Certifications: Waterproof enclosure: ATEX IIGD EX d t DA IIC T6
CE - electromagnetic compatibility**



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Certifications: CE - ATEX - DET NORSKE VERITAS - RINA

Exd Transmitters

These transmitters allow the continuous monitoring in Exd areas for flammable gases (%LEL), Oxygen (% O₂), and toxic gases (ppm).

Also available with internal display. Alluminium ATEX case.

Approvals ISSeP04ATEX036

ATEX II 2GD - EEx d IIC T6 - IP 6X - T85°C

Shipping approvals DNV (Det Norske Veritas) n° A8575

EXPLORER Transmitter

EXPLORER Box 4

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Explorer BOX 4 is a Multi-channel (up to 4 channels) microprocessor Control Unit gas detection system for Flammable, Oxygen and Toxic gases. Designed for continuous monitoring and alarm control.

Complete with wall mounting plate and case IP 65, as well as a universal power supply of 110/220Vac

The display shows for each channel the gas concentration and its unit.

- Alphanumeric display with 20 position in two lines
- 3 Multifunction keys for configuration mode.
- Led lights for alarms, fault and general malfunctions .
- Output relay for 2 alarms + Output relay for general alarm + Output relay for fault
- Power supply for sensors/transmitters (2 or 3 wires connection)
- IP 65



Explorer 4 (Multi Channel)

Explorer 4 is a Multichannel Control Unit in a rack module, with 4 (four) acquisition channels.

Designed for a continuous monitoring of dangerous gases.

The rack **module assures** a very easy installation in industrial cabinets. **Available racks for 8 or 16 channels.**



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Alphanumeric display with 32 positions, shows the gas concentration (or Input measure) and its unit

3 Multifunction keys for configuration and Led lights for alarms and fault. Each channels is independent and has own led lights alarms, 3-output relay and 1 output relay for Fault.

The configuration is completed with three keys located on the front panel.

The Unit has the **transmitter/sensor power supply** with 2 or 3 wires technology. **Port RS232** for remote control.

Certifications: CE - DET NORSE VERITAS (DNV-A7503)

EXPLORER 4

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