seitron

GAS SAFETY

2026 CATALOGUE

seitron

For 45 years, we have been designing technological evolution at the service of professionals

Since 1981, Seitron has represented Italian excellence in **thermoregulation**, **gas safety**, and **instruments for combustion**, **emissions** and **refrigeration analysis**.

Our figures demonstrate our deep-rooted solidity: **45 years of history**, a widespread presence in **80 countries** and a range of **over 500 products**. Every product is created within our company, where the entire supply chain is strictly controlled: from electronic design to plastic moulding, right up to final testing in our certified laboratories.

Innovation is the driving force behind our daily work. With significant investments in R&D and a strong focus on IoT, we have led the transition from mechanical thermostats to smart cloud-integrated systems, redefined the standards of professional combustion analysis and paid close attention to the safety of systems and professionals.

Choosing Seitron means relying on total quality, guaranteed by **Italian manufacturing processes** and rigorous testing that ensures product precision and durability over time.

Looking through this catalogue, you will discover the result of this commitment: tools designed for those who choose reliability and professionalism every day.

Seitron Milestones

1981 — Foundation
Seitrons' story begins in Bassano del Grappa, from an entrepreneurial idea by Ing. Vito Feleppa.
The first steps were taken in the field of thermoregulation.

2021 — Seitron Americas
Seitron Americas is established, marking the first step towards consolidating the company's presence on the American continent.

2026 — 45 years of activity
A journey of constant growth that has transformed experience and technology into value for customers and partners worldwide.

Technological Milestones

1985 — Residential gas detectors
Seitron expands its product offering in the gas safety sector, initiating the development of residential gas detectors.

2004 — Combustion analyzers
Seitron begins to develop and manufacture a complete range of portable instruments and combustion analysers.

2019 — IoT products
Seitron takes its first steps into the Internet of Things sector, developing and producing connected thermostats, manageable via app.

2022 — Refrigeration
Seitron expands its market presence by entering the refrigeration sector.

2024 — Portable gas detectors
A new chapter begins for Seitron, which introduces its latest innovation: single-gas and multi-gas portable detectors.
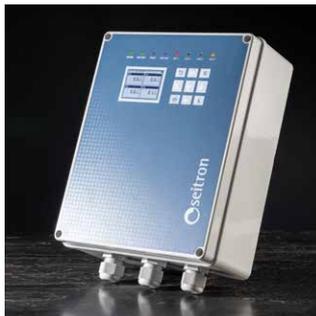
INDEX
PRODUCTS

Gas safety is essential to prevent accidents such as fires, explosions and poisoning. Seitron offers a complete range of gas detection products to ensure personal and site safety in both residential and industrial settings.

Portable Gas Detectors

Industrial Gas Safety

Residential Gas Detectors
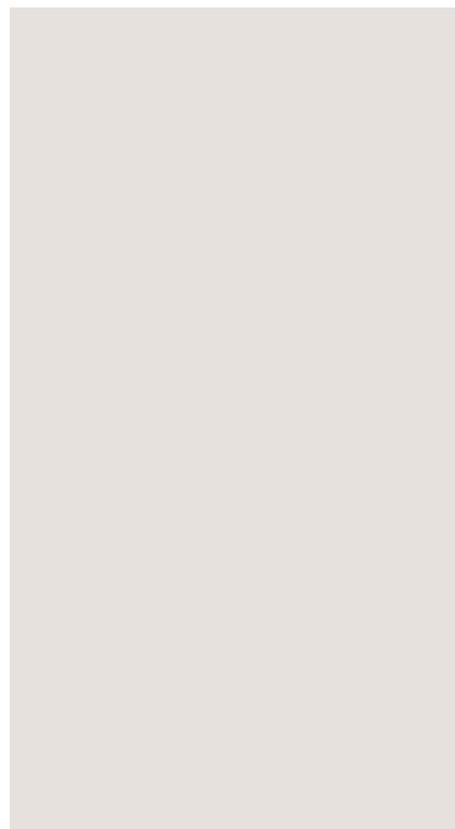
Gas detection is essential to ensure the protection of workers Working in confined spaces or in hazardous atmospheres.

Portable gas detectors are essential in many industrial sectors and work environments where exposure to toxic, flammable or asphyxiating gases can pose a significant risk to personal safety.

The Be Safe range is designed and manufactured by Seitron to offer devices that monitor the presence of hazardous gases in the surrounding environment and alert the user in case of danger.

PORTABLE SINGLE-GAS DETECTOR

be safe

Design and Made in ITALY

Be Safe SG is the new portable single-gas detector, designed to be compact, robust and easy to use. Configurable for one gas among O2, CO, H2S or SO2, it can be used in hazardous areas with explosion risk or for access to confined spaces, in order to ensure the personal safety of the operator.
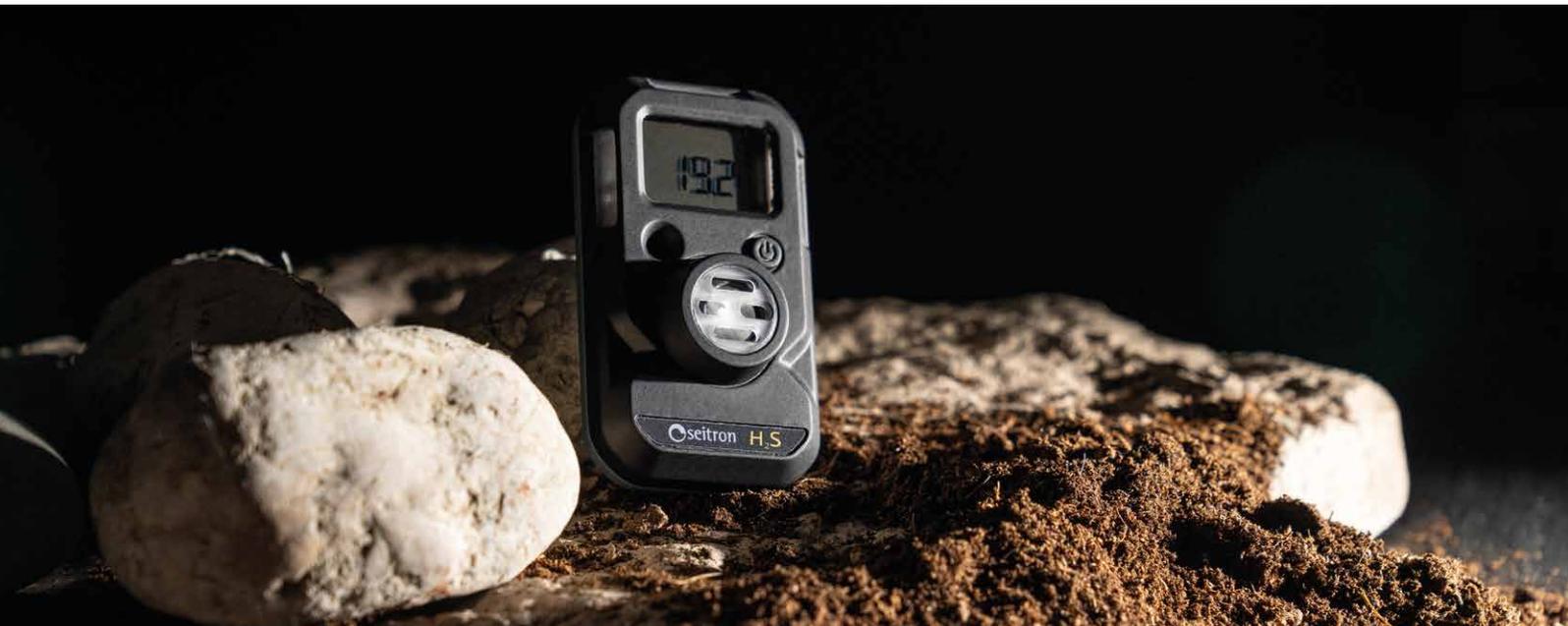
CO	O2	H2S	SO2

Portable gas detector

- 24 months of continuous operation
- Reliable detection of low concentrations of toxic, flammable and explosive gases
- Robust and easy to handle
- Rear attachment with crocodile clip
- Intrinsically safe
- Self-test function
- Event log storage
- Approved for **ATEX Zone 0**

Highlights

SAFETY
Built-in audible, visual and vibrating alarm for an immediate warning of danger

CONTINUOUS PROTECTION
Designed to ensure continuous operation for 24 months without the need to replace sensors or batteries

SOLID AND RELIABLE
The robust and solid case ensures accurate and reliable detection in all environments.

EASE TO USE
Developed from the outset to ensure maximum ease of use and intuitiveness

Technical Features

Dimensions (HxWxD)	89 x 51 x 28 mm
Weight	106 g
Sensor type	Electrochemical sensor
Display	Liquid Crystal Display (LCD)
Infrared communication	with Be Safe SG IR-Link accessory
IP Rating	IP67
Working Humidity	5 −95% RH (non-condensing)
Battery	Lithium battery, 3.6 Vdc, 1.65 Ah
Working life	24 months from first activation (2 minutes of alarms per day)
Alarms	Acoustic: (95 dB @ 10 cm)
	Visual: LED
	Vibration: vibrating motor
Alarm Levels	Minimum and Maximum
Events Memory	Last 30 events
Conformity	EN 60079-0:2018 - IEC 60079-0:2017
	EN 60079-11:2012 - IEC 60079-11:2011
Certifications	ATEX: II 1G Ex ia IIC T4 Ga (Certificate: CML 24 ATEX 2184)
	IECEx: Ex ia IIC T4 Ga (Certificate: IECEx CML 24.0071)
	QPS: Class I, Division 1, Groups A, B, C and D, T4
	Class I, Zone 0, AEx ia IIC T4 Ga; Ex ia IIC T4 Ga
	Ex ia IIC T4 Ga (Certificate: QPS ML3681-1)

Easy to use

Back clip

Code	Gas detected	Measuring range	Low Alarm Level (*)	High Alert Level (*)	Working tempe- rature
Be Safe SG O2	O2	0 to 25% by volume	19.5% vol	23.5% vol	- 30 .. 60 °C *- 22 .. 140 °F*
Be Safe SG CO	CO	0 to 300 ppm	35 ppm	100 ppm	- 40 .. 60 °C *- 40 .. 140 °F*
Be Safe SG H2S	H2S	0 to 100 ppm	10 ppm	15 ppm	- 40 .. 60 °C *- 40 .. 140 °F*
Be Safe SG SO2	SO2	0 to 50 ppm	5 ppm	10 ppm	- 40 .. 60 °C *- 40 .. 140 °F*

(*) Values refer to predefined alarm levels. Alarm levels can be changed using Be Safe SG IR-Link and the dedicated PC software.
Upon request, the device can be supplied with different default settings (alarm thresholds and/or default display).

Contents of the Be Safe SG kit:
- Portable gas detector
- Calibration adapter
- Quick guide
- Test report
- EC Declaration of Conformity

Be Safe SG IR-Link

Infrared transmitter with USB cable, to manage the device via **Be Safe SG IR-Link Manager** PC software .

Be Safe SG Docking Station

Multi-device docking station for Be Safe SG, for performing bump tests and calibration on up to 4 portable gas detectors simultaneously, using the **Be Safe SG Docking Station Manager** PC software .

be safe

Main applications

- Sewerage and underground safety
- Power generators
- First response and firefighting
- Chemical process Industry
- Pharmaceutical industry
- Aviation industry

- Steel mills and heavy industry
- Petrochemical industry
- Biogas plants
- Agri-food industry
- Civil infrastructure sites
- Oil refineries

PORTABLE MULTI-GAS DETECTOR

be safe
Design and Made in ITALY

Be Safe MG is the new portable multi-gas detector designed to be used in hazardous areas, combining safety and design, ease of use and effective periodic maintenance.
Be Safe MG can include up to 4 sensors, choosing from over 10 gases.

Portable gas detector
- Customisable configuration for up to 4 gases
- Intrinsically safe
- 3-year product warranty
- IP67 IP Rating
- LCD display for showing values of concentration
- Audible, visual and vibrating alarm
- Integrated crocodile clip
- Bump Test and Calibration Kit included
- Approved for **ATEX Zone 0**

O2 Longlife	CO	H2S	LEL	H2	Dual CO+H₂S
SO2	NH3	NO	NO2	CL2	

Highlights

MULTIPLE APPLICATIONS
Designed and developed to protect users in various industries and work environments, configurable according to user requirements.

SIMULTANEOUS GAS DETECTION
The robust and solid housing ensures accurate and reliable detection in all environments.

RECHARGEABLE BATTERY
Rechargeable lithium-ion battery for up to 18 hours of operation and a short charging time

EASE OF USE AND MAINTENANCE
Designed for ease of use and quick and simple daily maintenance (bump test)

SAFETY AT A GLANCE
Immediate alert status notification thanks to visual, acoustic and vibration indicators

Technical Features

Dimensions (HxWxD)	140 x 70 x 38 mm
Weight	280 g
IP Rating	IP67
Robustness	1 m drop test according to EN 60079-0 (2018)
Working temperature	-20 to +55 °C
Working Humidity	5 - 95% RH (non-condensing)
Typical Battery Life	Up to 18 hours (depending on configuration) @ -20 °C
Alarms Audio	90 dB @ 30 cm
	Visual: LED
	Vibration: Vibrating motor
Alarm Levels	Low, High, STEL (Short Term Exposure Limit), TWA (Time-Weighted Average)
Event Log	408 days based on 8-hour shifts with 40 events per day
Data Logger	22 days based on 8-hour shifts with recording every 10 seconds
Conformity	EN 60079-0:2018 - IEC 60079-0:2017
	EN 60079-1:2014 - IEC 60079-1:2014
	EN 60079-11:2012 - IEC 60079-11:2023
Certifications/Approvals	ATEX: II 1G Ex da ia IIC T4 Ga (configuration with LEL sensor)
	II 1G Ex ia IIC T4 Ga (configuration without LEL sensor)
	(Certificate: TUV IT 24 ATEX 0162 X)
	IECEx: Ex ia IIC T4 Ga (Certificate: IECEx TPS 23.0053 X)

Configurations up to 4 sensors

Design and robustness

| Features	Be Safe MG O2 LL, LEL, CO, H2S	Be Safe MG O2 LL, LEL, CO	Be Safe MG O2 LL, LEL
O2 Longlife (0–25% vol.)	✓	✓	✓
LEL (CH$_4$) (0 to 5% vol/0 to 100% LEL)	✓	✓	✓
CO (0 to 1,000 ppm)	✓	✓	
H2S (0 to 100 ppm)	✓		

Other configurations available on request with the option of configuring the instrument with up to 4 sensors of your choice. Other sensor configurations (up to 4) and default settings (e.g. LEL fuel) are available on request.

Be Safe MG kit contains:

- Portable gas detector
- Docking station, with accessory for wall mounting
- Calibration adapter and gas pipe
- USB cable for battery charging and software connection
- Quick Guide
- Test report
- EC Declaration of Conformity

Be Safe MG Manager
Management software for Be Safe MG
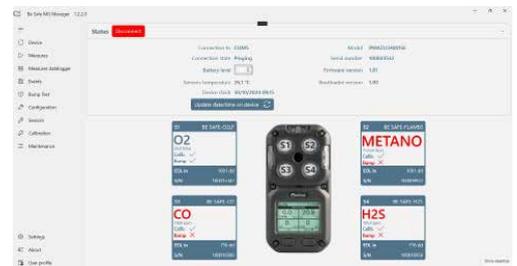
Detected gas	Sensor type	Measuring range	Resolution	Response time (t90)
O2 Long Life	Electrochemical	0 to 25% by volume	0.1% vol	<10 seconds
CO	Electrochemical	0 .. 1,000 ppm	1 ppm	<15 seconds
H_2S	Electrochemical	0 to 100 ppm	0.1 ppm	<15 seconds
LEL (Fuels)	MEMS	0 .. 5% vol 0 .. 100% LEL	0.01% vol 1% LEL	<15 seconds
SO2	Electrochemical	0 to 100 ppm	1 ppm	<20 seconds
NO2	Electrochemical	0 to 150 ppm	1 ppm	<30 sec
NO	Electrochemical	0 to 250 ppm	1 ppm	<30 sec
NH3	Electrochemical	0 to 100 ppm	0.1 ppm	<15 seconds
H2	Electrochemical	0 .. 1,000 ppm	1 ppm	<15 seconds
CL2	Electrochemical	0 to 20 ppm	0.1 ppm	<15 seconds
$CO+H_2S$ (Dual)	Electrochemical	CO: 0 to 1,500 ppm H2S: 0 to 500 ppm	1 ppm	<15 seconds

Code	Description
Be Safe MG Docking Station (AMDS01)	Charging, communication, bump test and calibration station for Be Safe MG
AMSD01	Wall mount for Be Safe MG Docking Station (AMDS01)
AMGC01	Calibration adapter and gas tube (L = 50 cm) for Be Safe MG
AMAF01	External dust filter for Be Safe MG
AMKP01	Calibration adapter and gas tube (AMGC01) and external dust filter (AMAF01) for Be Safe MG
AMKF01	External replacement filters (8 pieces) for external dust filter (AMAF01)
AMPM01	Manual suction pump for remote sampling. The kit includes: manual suction pump complete with silicone tube (L = 30 cm) and sampling tube (L = 3 m)

Note: This document contains only a general description of the uses, Technical Features and Conformity of the products illustrated. Please refer to the product marking for the Technical Features of the product.
Product specifications are subject to change without notice. Before use, the user must read and understand the instructions for use of the device.

Industrial gas detection systems are essential for ensuring safety in environments where toxic, flammable or inert gases are used.
Since the beginning, Seitron has invested heavily in the development and production of gas safety devices for industrial sites, always striving for the highest quality and innovation. Seitron offers an extremely wide and constantly evolving range of products, thanks to the know-how acquired over time.

Seitron Industrial Gas line includes all the devices needed to build a complete system, using fixed transmitters for gases (combustible, toxic and refrigerants), control units and accessories.

PROGRAMMABLE CONTROL UNIT
GAS MASTER CONTROL
RYF01M

Gas Master Control is the gas detection control unit that allows you to manage transmitters for combustible, toxic and refrigerant gases. **Up to 40 transmitters** can be connected **simultaneously**, thanks to the 4 .. 20 mA analogue inputs and the Modbus® RTU output.
Each transmitter (slave) is capable of detecting a specific gas and can communicate its status to the control unit (master), which can activate any associated loads. In fact, the two additional inputs allow the control unit to be connected to the fire alarm or manual reset button.

Gas Master Control

Design and Made in ITALY

Technical Features

Power supply	85 .. 254 Vac 50 .. 60 Hz
	12 Vdc
Inputs	8x4 .. 20 mA
	1 fire alarm input
	1 input for manual reset
Modbus® RTU (via RS485)	up to 32 gas transmitters
Output	5x5 A 250 Vac SPDT
Display	180x128 graphic LCD
Dimensions (HxWxD)	276.7x198.4x95.8 mm

Accessories

ACSR02
Siren with light and Audible alarm
Power supply: 7 .. 30 Vdc
Power consumption: 2 W
Sound intensity: 100 dB/m

ACSR03
Siren with light and Audible alarm
Power supply: 85 .. 264 Vac, 50 .. 60 Hz
Power consumption: 6 W
Sound intensity: 100 dB/m

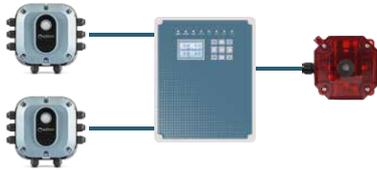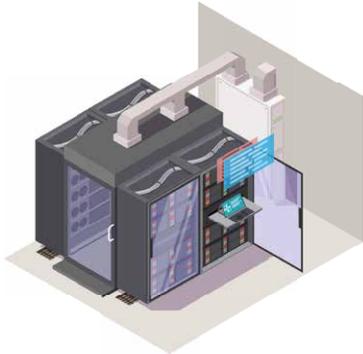# GAS MASTER CONTROL APPLICATION

REFINERY

- SX-- and SW-- series
- Gas Master Control (RYF01M)
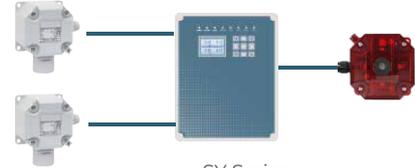- Alarms (ACSR02/3)

MULTI-LEVEL CAR PARK

- SX-- and SW-- series
- Gas Master Control (RYF01M)
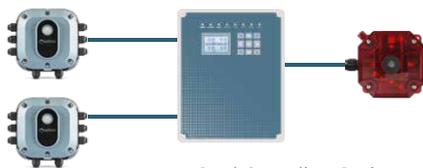- Alarms (ACSR02/3)

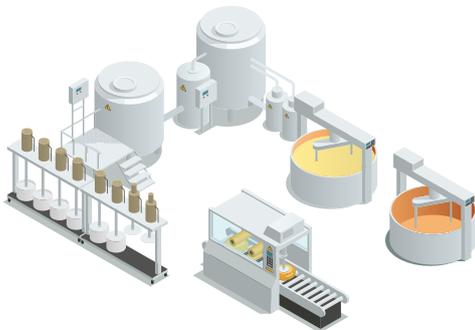## DATA CENTRE INFRASTRUCTURE

- Cool Guardian Series
- Gas Master Control (RYF01M)
- Alarms (ACSR02/3)
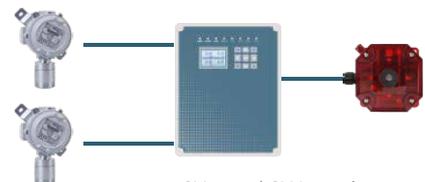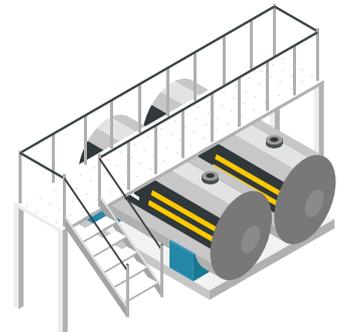
WATER PURIFICATION PLANT

- SY Series--
- Gas Master Control (RYF01M)
- Alarms (ACSR02/3)

FOOD INDUSTRY

- Cool Guardian Series
- Gas Master Control (RYF01M)
- Alarms (ACSR02/3)

GAS STORAGE FACILITIES

- SX-- and SW-- series
- Gas Master Control (RYF01M)
- Alarms (ACSR02/3)

PROGRAMMABLE CONTROL UNIT 2 .. 8 ZONES - 4 .. 20 mA

RYM02M2 2-channel control unit
RYM02M1 4-channel control unit
RYM02M0 8-channel control unit

Design and Made in ITALY

The RYM02M industrial gas detection control unit allows you to monitor gas concentrations in up to 8 zones.

Each zone can be connected to a transmitter with a 4–20 mA output signal for detecting toxic or combustible gases (SY--, SX--, SW-- series).

The control unit has obtained the ATEX type report in accordance with standard EN IEC 60079-0:2018 and performance standard EN 60079-29-1:2016.

CE 0051   IMQ 20 ATEX 004 X

II (2)G [Ex Gb] II

ACAL10
Power supply with
input 100 .. 240 Vac 50 .. 60 Hz

Technical Features

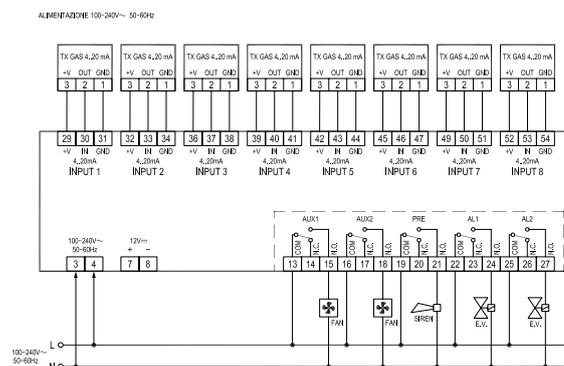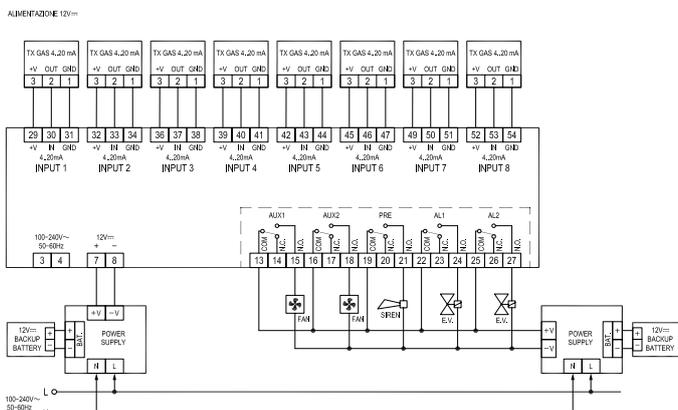|	
Power supply	12 .. 24 V or 100 .. 240 V, 50 .. 60 Hz
Manages transmitters	CO, LPG, Methane (CH4) and Petrol vapours (n-octane)
Display	LCD 2 x 16 characters backlit
Mounting	installation on DIN rail, 9 modules
Outputs	1 Pre-alarm relay
	1 Alarm Relay 1
	1 Alarm Relay 2
	2 auxiliary relays (configurable by the user on events)
Contact rating	5 x 8 A 250 V~ cosφ =1
Detectable events:	Open, Fault, Pre-alarm, Alarm 1, Alarm 2
Fault	Activates the buzzer and the flashing yellow LED
	activates buzzer, yellow LED and flashing red LED
Alarm 1 activates	buzzer, yellow LED and red LED lit steadily
Alarm 2 activates	buzzer, yellow LED and red LED lit steadily
Dimensions (HxWxD)	90x158x71 mm
Conformity	EN IEC 60079-0:2018, EN 60079-29-1: 2016
ATEX Certificate	IMQ 20 ATEX 004 X
IP Rating	IP20

32-ZONE PROGRAMMABLE CONTROL UNIT

32-channel Modbus control unit

RYK01M

This device is a "MASTER" control unit for detecting gas leaks with Modbus® RTU communication protocol.
Up to 32 transmitters (slaves) equipped with Modbus® output can be connected to the control unit. Each transmitter is capable of detecting a specific gas and can communicate its status via the appropriate Modbus® registers.

Design and Made in ITALY

Technical Features

Power supply	230 V~ 50 .. 60 Hz
Outputs	1 Pre-alarm relay
	1 Alarm Relay 1
	1 Alarm Relay 2
	2 auxiliary relays (configurable by the user on events)
Contact rating	5 x 8 A 250 V~ cosφ =1
Events	Open, Fault, Pre-alarm, Alarm 1, Alarm 2
	activate the buzzer and the yellow LED flashes.
	activates buzzer, yellow LED and flashing red LED
Alarm 1 activates	buzzer, yellow LED and red LED lit steadily
Alarm 2 activates	buzzer, yellow LED and red LED lit steadily
Dimensions (HxWxD)	90x158x71 mm
IP Rating	IP20
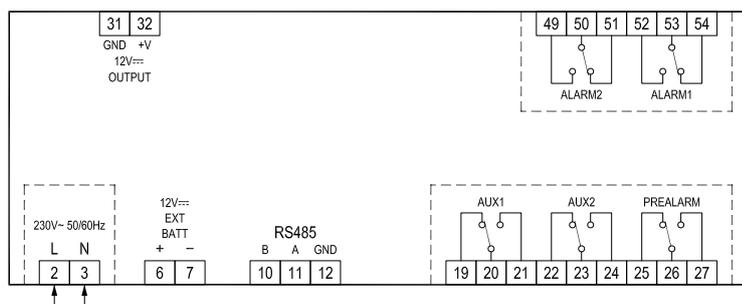
ACAL10
Power supply with
input 100 .. 240 Vac 50 .. 60 Hz

ACIMB2
Modbus® RTU interface

AASW20
Multi-zone gas system
management software

Master control unit
(RYK01M)

Modbus® RTU
interface
(ACIMB2)

Monitoring
software
and control
AASW20

Modbus RTU
slave tran-
smitters
(SY-- and SX--)

..up to 32
units
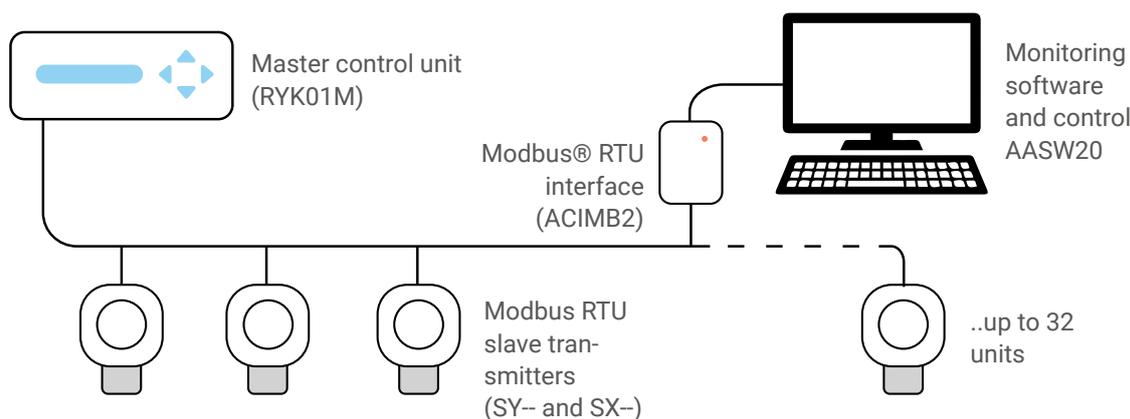
Multizone Gas Systems
Monitoring software

Gas Master is the PC software for managing and monitoring RYK01M control units connected via ACIMB2 gateways. The software allows you to configure and view the status of connected control units.
Each control unit is displayed as a tab.
The 32 sensors (maximum) of each control unit are grouped together to display the gas levels detected, alarms and the configuration of the control unit itself.

ATEX MARKING (example)

0051: Number of the Notified Body responsible for the Quality Mark (IMQ).

II 2GD: Equipment for surface installations (II) with the presence of Category 2 gas (G) or dust (D), suitable for zone 1 or 21 and, with redundancy, for zone 2 or 22.

Ex d: Equipment with ATEX Ex d protection mode (explosion-proof case).

IIB+H2: Group IIB equipment suitable for all Group IIB gases as well as H2 (hydrogen). Group IIB+H2 equipment is also suitable for environments with Group IIB and IIA gases.

T6: Temperature class of the equipment (maximum surface temperature 85°C). Equipment with temperature class T6 is also suitable for substances with a higher temperature class (T5 .. T1).

Gb: EPL: Equipment Protection Level according to IEC standards. 'Gb' means 'high protection level (b) for environments with gas (G)'.

Ex tb: Equipment with ATEX Ex tb protection mode for dust (via case - high level of protection).

IIIC: Equipment suitable for use in the presence of conductive dusts of group IIIC.

**85°C**: Temperature class of the appliance for use with dust: maximum surface temperature: 85°C.

Db: EPL: Equipment Protection Level. 'Db' stands for 'high protection level (b) for Dust (D) environments'.

IMQ 00: Notified Body that issued the Type Conformity Report (IMQ) and year of issue.

ATEX 0000: Number of certificate in the year of issue.

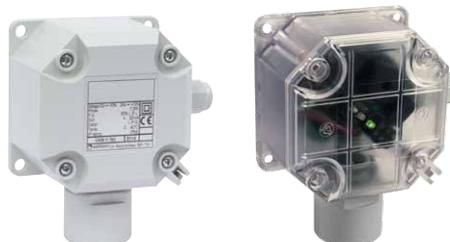**X**: Special conditions of use (see Safety Instructions).
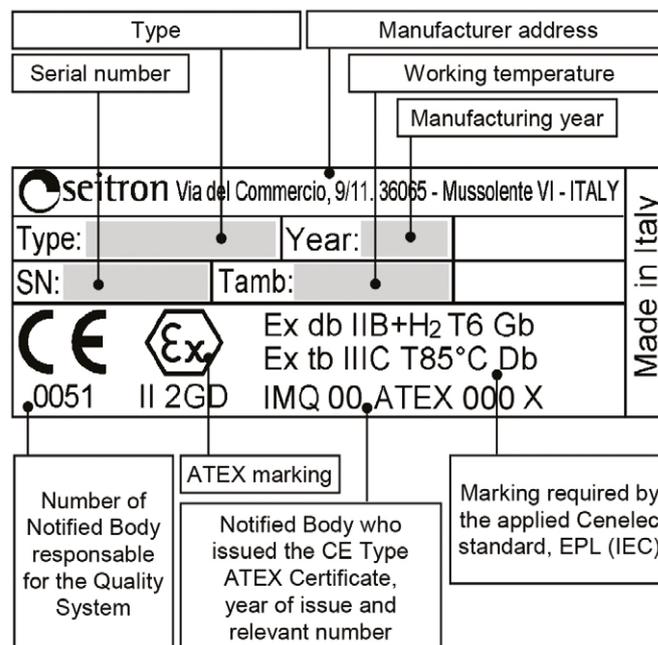
BASIC RANGE TRANSMITTERS
PLASTIC CASE
SY

Design and Made in ITALY

Technical Features

Filter	Sintered PE
Case	(ABS V0 - ABS HB)
Dimensions (HxWxD)	135x122x57 mm
IP Rating	IP54

OUTPUTS
4 .. 20 mA

COMMUNICATION MODBUS®

ALARM RELAY

IP RATING IP54

Gas	Measuring Range	Output Signal	Case	Code
Methane	50% L.E.L.	4 .. 20 mA + Modbus®	grey plastic	SYMN24B
		4 .. 20 mA + Modbus® + Relay + Buzzer + LED	clear plastic	SYMN04R
	100% L.E.L.	4 .. 20 mA + Modbus®	grey plastic	SYMN26B
		4 .. 20 mA + Modbus® + Relay + Buzzer + LED	clear plastic	SYMN06R
LPG	50% L.E.L.	4 .. 20 mA + Modbus®	grey plastic	SYGN24B
		4 .. 20 mA + Modbus® + Relay + Buzzer + LED	clear plastic	SYGN04R
	100% L.E.L.	4 .. 20 mA + Modbus®	grey plastic	SYGN26B
		4 .. 20 mA + Modbus® + Relay + Buzzer + LED	clear plastic	SYGN06R
Petrol vapours	50% L.E.L.	4 .. 20 mA + Modbus®	grey plastic	SYVN24B
		4 .. 20 mA + Modbus® + Relay + Buzzer + LED	clear plastic	SYVN04R
	100% L.E.L.	4 .. 20 mA + Modbus®	grey plastic	SYVN26B
		4 .. 20 mA + Modbus® + Relay + Buzzer + LED	clear plastic	SYVN06R
CO	0 to 500 ppm	4 .. 20 mA + Modbus®	grey plastic	SYCN21B
		4 .. 20 mA + Modbus® + Relay + Buzzer + LED	clear plastic	SYCN01R

COMMERCIAL RANGE TRANSMITTERS
METAL CASE FOR ATEX N.C. ZONES
SY

Design and Made in ITALY

Technical Features

Filter	Sintered stainless steel
Case	Die-cast aluminium
Dimensions (HxWxD)	154x100x60 mm
IP Rating	IP66

OUTPUTS 4 .. 20 mA

COMMUNICATION MODBUS®

EASY SENSOR REPLACEMENT

IP RATING IP66

Gas	Measuring Range	Output Signal	Case	Code
Methane	50% L.E.L.	4 .. 20 mA + Modbus®	metallic	SYMN54B
LPG	50% L.E.L.	4 .. 20 mA + Modbus®	metallic	SYGN54B
Petrol vapours	50% L.E.L.	4 .. 20 mA + Modbus®	metallic	SYVN54B
CO	0 to 500 ppm	4 .. 20 mA + Modbus®	metallic	SYCN51B

All transmitters are compatible with Gas Master Control units (RYF01M), RYM02M0, RYM02M1, RYM02M2 and RYK01M.

The only exception is for transmitters:

- Cool Guardian and Safe Guardian are not compatible with RYK01M and RYM02M control units
- SW-X not compatible with the RYK01M control unit

INDUSTRIAL RANGE TRANSMITTERS
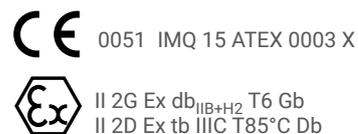## *METAL CASE FOR ATEX ZONES 1*
SX

Design and Made in ITALY

Technical Features

Filter	Sintered stainless steel
Case	Die-cast aluminium
Dimensions	168 x 138 x 89 mm
IP Rating	IP6x

CE 0051 IMQ 15 ATEX 0003 X

II 2G Ex db$_{IIB+H2}$ T6 Gb
II 2D Ex tb IIIC T85°C Db

Gas	Measuring Range	Output Signal	Report	Code
Methane	50% L.E.L.	4 .. 20 mA + Modbus	IMQ 15 ATEX 003 X	SXMX14M1Y
	100% L.E.L.	4 .. 20 mA + Modbus	IMQ 15 ATEX 003 X	SXMX16M1Y
LPG	50% L.E.L.	4 .. 20 mA + Modbus	IMQ 15 ATEX 003 X	SXGX14M1Y
	100% L.E.L.	4 .. 20 mA + Modbus	IMQ 15 ATEX 003 X	SXGX16M1Y
Petrol vapours	50% L.E.L.	4 .. 20 mA + Modbus	IMQ 15 ATEX 003 X	SXVX14M1Y
	100% L.E.L.	4 .. 20 mA + Modbus	IMQ 15 ATEX 003 X	SXVX16M1Y
CO	0 to 500 ppm	4 .. 20 mA + Modbus	IMQ 15 ATEX 003 X	SXCX11M1Y

COMMERCIAL RANGE TRANSMITTERS
METAL Case FOR ATEX ZONES 1
SW

Design and Made in ITALY

Technical Features

Filter	Sintered stainless steel
Case	Die-cast aluminium
Dimensions	100x134x60 mm
IP Rating	IP66

CE 0051 IMQ 20 ATEX 0006

II 2G Ex db IIC T6 Gb
II 2D Ex tb IIIC T85°C Db

Gas	Measuring Range	Output Signal	Report	Code
Methane	50% L.E.L.	4 .. 20 mA	IMQ 20 ATEX 006	SWMX1411
LPG	50% L.E.L.	4 .. 20 mA	IMQ 20 ATEX 006	SWGX1411
Petrol vapours	50% L.E.L.	4 .. 20 mA	IMQ 20 ATEX 006	SWVX1411
Hydrogen	50% L.E.L.	4 .. 20 mA	IMQ 20 ATEX 006	SWHX1411

The transmitter codes indicated refer to cases with:
- 3 x 3/4" NPT (SX-X) inlets
- 1 x 3/4" NPT inlet (SW-X), opposite the sensor.

TRANSMITTER ADAPTERS FOR GAS CALIBRATION

Code	Description
ACAD05	Aluminium adapter for SX-N, SY-N and ATEX SW-X series transmitters
ACAD06	Aluminium adapter for ATEX series transmitters, SX-X series

INTERFACES and ACCESSORIES FOR TRANSMITTERS

Code	Description
ACIR01	2 relays interface, LEDs, buzzer for SY transmitters
ACTP01	3/4" NPT cap

SPARE PARTS - SENSORS FOR PLASTIC TRANSMITTERS

Code	Gas			
	Petrol Vapours	CO	LPG	Methane
ACMC08	--	0 to 500 ppm	--	--
ACMG02	--	--	0 .. 50% LIE	--
ACMG07	--	--	0 .. 100% LIE	--
ACMM02	--	--	--	0 .. 50% LIE
ACMM07	--	--	--	0 .. 100% LIE
ACMV02	0 .. 50% LIE	--	--	--
ACMV07	0 .. 100% LIE	--	--	--

Code	Description
ACMN03	Replaceable sensor module for SW-X series Atex transmitters

cool
guardian

COOL GUARDIAN
REFRIGERANT GAS TRANSMITTER

| R744 (CO2) | R410A | R134A | R32 |
| R454B | R407C | R290 | R717 (NH3) |

FULL RANGE OF REFRIGERANT GASES

OUTPUTS
Configurable analogue outputs
(4 .. 20 mA, 0 .. 5 V, 0 .. 10 V,
1 .. 5 V, 2 .. 10 V)

MODBUS® COMMUNICATION
Up to 32 devices can be connected via the RS485 interface

RELAY OUTPUTS
3 relays that act as fault detectors and activate low and high level alarms

GREATER SAFETY
Built-in audible and visual alarms for immediate warning of danger, in compliance with safety regulations

EASY MAINTENANCE
Possibility of field calibration via app

The **Cool Guardian** refrigerant gas transmitter guarantees fast response times, high performance even at low temperatures (-40 °C), and built-in audio and visual alarms.

Modern refrigeration systems are designed to ensure maximum efficiency.
However, incorrect installation, accidental damage or mechanical wear can potentially lead to dangerous gas leaks.

In this context, the **Cool Guardian** gas transmitter acts as a watchdog against unexpected leaks, which could compromise both the environment and health.

Technical Features

Power supply:	12 .. 24 Vac ± 10% or 12 .. 24 Vdc ± 10%
Power consumption:	5 W
Relay outputs:	3 x 1 A 30 Vac (voltage-free contacts)
Analogue output:	4..20 mA, 0..5 V, 0..10 V, 1..5 V, 2..10 V - configurable via app
Modbus® output:	RS485 Modbus® RTU protocol up to 32 connectable devices
IP rating:	IP65 (with cables/plugs inserted into cable glands)
Operating temperature:	-40 to +50 °C
Humidity:	20% .. 90% RH (non-condensing)
Dimensions (HxWxD):	176x192x83 mm

Code	Gas	Sensor type	Range
Cool Guardian R744 (CO2)	R744 (CO_2)	NDIR	0 to 10,000 ppm
Cool Guardian R410A	R410A	Semiconductor	0 .. 1,000 ppm
Cool Guardian R134A	R134A	Semiconductor	0 .. 1,000 ppm
Cool Guardian R32	R32	Semiconductor	0 .. 1,000 ppm
Cool Guardian R454B	R454B	Semiconductor	0 .. 1,000 ppm
Cool Guardian 407C	R407C	Semiconductor	0 .. 1,000 ppm
Cool Guardian R290	R290	Semiconductor	0 .. 2,500 ppm
Cool Guardian R717 (NH3)	R717 (ammonia)	Electrochemical	0 to 100 ppm

Seitron Guard

GET IT ON Google Play   Download on the App Store   EXPLORE IT ON AppGallery

The Seitron Guard mobile app simplifies configuration, maintenance and interaction with Cool Guardian gas transmitters.

- Bump test/calibration
- Device configuration
- Setting thresholds and managing output settings
- Maintenance: LED test, buzzer and relay check
- Intuitive monitoring

ACKC01
Safe and Cool Guardian calibration kit
to perform bump tests and calibration.
Includes magnet for pairing the transmitter with the Seitron Guard app.
(Accessory not included in the kit)

safe
guardian

Design and Made in ITALY

CO   O2   CH4

COMBUSTIBLE AND TOXIC GAS TRANSMITTER

Safe Guardian enables constant monitoring of the surrounding environment to detect and report any toxic or combustible gas leaks. Thanks to its configurable analogue output and Modbus® RTU interface, Safe Guardian is suitable for use in a wide range of applications, adapting to different requirements.

The Safe Guardian gas transmitter guarantees fast response times, high performance (-40°C/50°C), and integrated audible and visual alarms. In addition, the Seitron Guard mobile app facilitates the commissioning, configuration, and maintenance of the device.

Technical Features

Power supply	12 .. 24 Vac ± 10% or 12 .. 24 Vdc ± 10%
Power absorption	5 W
Relay outputs	3x1 A 30 Vac (voltage-free contacts)
Analogue output	4−20 mA, 0−5 V, 0−10 V, 1−5 V, 2−10 V, configurable via app
	Modbus® output via RS485 with Modbus® RTU protocol
	up to 32 connectable devices
IP Rating	IP65 (with cables/plugs into cable glands)
Working temperature	-40 *to* +50 *°C*
Humidity	20% to 90% RH (non-condensing)
Dimensions (HxWxD)	176x92x83 mm

Code	Gas	Sensor Type	Range
Safe Guardian CO	CO	Electrochemical	0 to 500 ppm
Safe Guardian O2	O2	Electrochemical	0 to 25 % v/v
Safe Guardian CH4	CH4	Pellistore	0 to 50 % LEL

Seitron Guard

GET IT ON Google Play   Download on the App Store   EXPLORE IT ON AppGallery

The Seitron Guard mobile app simplifies configuration, maintenance and interaction with Safe and Cool Guardian gas transmitters.

- Bump test/calibration
- Product configuration: renaming of the device for easy location, alarm
- Setting thresholds and managing output settings
- Maintenance: LED test, buzzer function and relay check
- Intuitive monitoring

cool 〰 safe 〰
guardian   guardian

Cool Guardian and **Safe Guardian** are suitable for various industrial applications.

Choosing the appropriate gas sensor to monitor gas leaks in industrial environments and processes is essential when it comes to fixed gas transmitters. The range is constantly evolving, including different types of toxic, combustible and refrigerant gases, which can be detected with different types of sensors, also guided by specific application requirements.

Calibrating Seitron **Cool Guardian** and **Safe Guardian** is very simple, thanks to our kit and the Seitron Guard mobile app.

The calibration kit includes a magnetic rod and a gas adapter. These items allow you to operate in the field without removing the detector cover.

By following the step-by-step instructions on the app, users can fine-tune the device to ensure high-performance operation. Periodic bump testing and transmitter calibration help maintain the safety and efficiency of the systems.

ACKC01
Safe Guardian and Cool Guardian calibration kit for bump testing and calibration. Includes magnet for pairing the transmitter with the Seitron Guard app.
(Accessory not included in the kit)

# 1 IN 2 OUT METHANE OR LPG GAS DETECTOR

RGIME1MSX2 *Methane*
RGIGP1MSX2 *LPG*

The methane (CH4) gas leak detector is equipped with an internal sensor and is designed for connection to a second remote sensor (SGA-- or SGI--). In addition to having two relay outputs, it is equipped with a manual reset button. The device can be installed in non-ATEX classified areas.

Technical Features

Power supply	230 V~ -15/+10%, 50 Hz
Output 1 (relay x e.v.)	4(2) A 250 V~ SPDT
Output 2 (alarm relay)	4(2) A 250 V~ SPST
Sensor type	Semiconductor
Sensor service life:	5 years
Alarm threshold	13% L.E.L.
Reports	active/alarm1/alarm2
	Green/red/red LED
Button	Reset
Delay on e.v. relay	~15 sec.
IP Rating	IP54
Dimensions (HxWxD)	79x134x62 mm
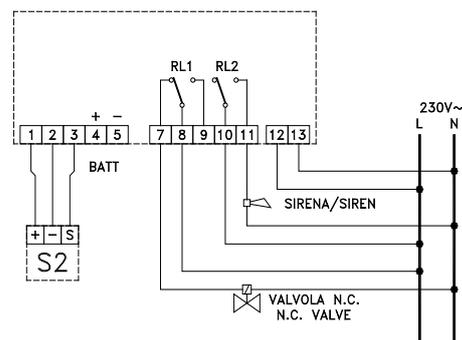
SGAMET: for methane in IP30 case
SGAGPL: for LPG in IP30 containers
SGIME1 / SGIME1M: for methane in IP54 case
SGIGP1 / SGIGP1M: for LPG in IP54 case
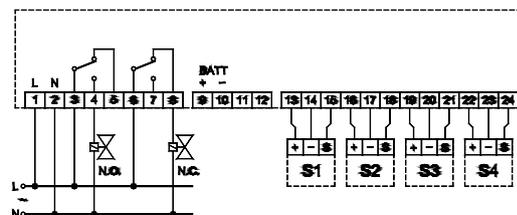
4 IN 2 OUT + RESET CONTROL UNIT

RGI000MSX4

The gas detection control unit for industrial use can be connected to up to 4 gas sensors, thanks to its 4 inputs. In the event of an alarm, there is a visual and audible indication on the unit itself, as well as the possibility of connecting it to alarms or solenoid valves using the 2 relay outputs available. It is equipped with a test button and a reset button.

Technical Features

Power supply	230 V~ -15/+10% 50 Hz
Output (relay)	2x6(2) A 250 V~ SPDT
	active/fault/alarm
	4 green LEDs/
	flashing LED/4 red LEDs
Delay on e.v. relay	1 .. 90 sec.
Button 1	Test
Button 2	Reset
IP Rating	IP54
Dimensions (HxWxD)	188x230x114 mm

SGAMET: for methane in IP30 case
SGAGPL: for LPG in IP30 containers
SGIME1 / SGIME1M: for methane in IP54 case
SGIGP1 / SGIGP1M: for LPG in IP54 case

2 IN 2 OUT + RESET CONTROL UNIT
## *RGI001MSX2*

The gas detector for power stations can be connected to up to 2 remote sensors. It does not have an internal sensor.
In the event of an alarm, there is a visual indication, as well as the possibility of connecting it to alarms or solenoid valves using the 2 relay outputs available. It is equipped with a test button and a reset button.

Technical Features

Power supply	230 V~ -15/+10%, 50 Hz
Output 1 (relay x e.v.)	4(2) A 250 V~ SPDT
Output 2 (relay for alarm)	4(2) A 250 V~ SPST
Signals:	active/alarme1/alarme2
	Green/red/red LED
Delay on e.v. relay	~15 sec.
Button	Reset
Dimensions (HxWxD)	79x134x62 mm
IP Rating	IP54
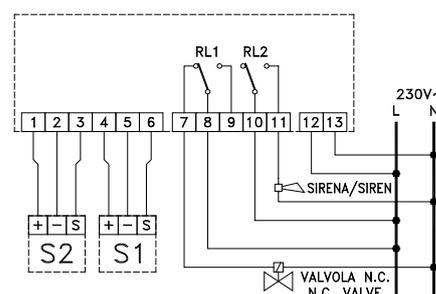
SGAMET: for methane in IP30 case
SGAGPL: for LPG in IP30 containers
SGIME1 / SGIME1M: for methane in IP54 case
SGIGP1 / SGIGP1M: for LPG in IP54 case

# 10 IN 1 OUT + RESET CONTROL UNIT
RGI000LBXD

The gas detection control unit can be connected to up to 10 remote sensors, powered by 230 Vac.
In the event of an alarm, there is a visual and audible indication. It is also equipped with a test button and a reset button.

Technical Features

Battery	12V ±10%
Output (relay)	5(1)A 250 V~ SPDT
Reports:	active/pre-alarm/alarm
	Green/red/red LED
Delay on e.v. relay	>20 sec.
Button 1	Test
Button 2	Reset
	6 DIN rail modules
IP Rating	IP54
Dimensions (HxWxD)	90x105x70 mm
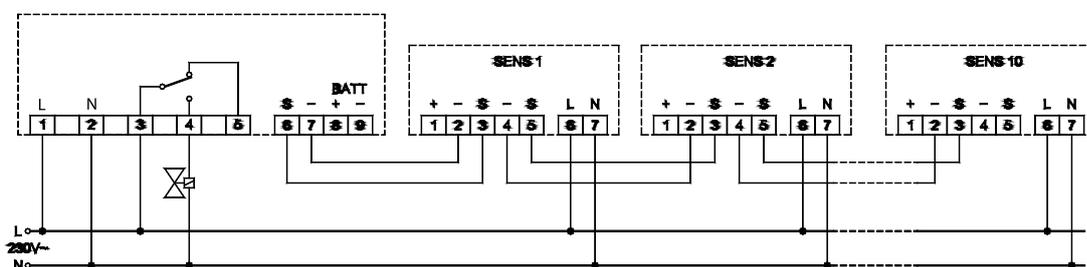
SGIME1M: for methane in IP54 container
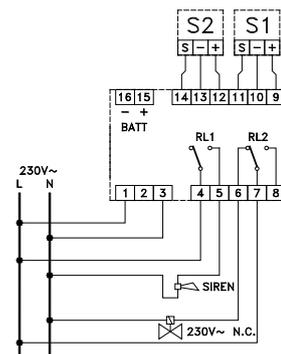*SGIGP1M*: for LPG in IP54 container

2 IN 2 OUT DIN RAIL CONTROL UNIT
RGI000MBX2

The control unit for gas leak sensors in a 3-module container for The DIN guide is equipped with inputs for two remote sensors and two relay outputs. It also has a test button and a reset button.

Technical Features

Power supply	230 V~ -15/+10% 50 Hz
Output 1 (relay x e.v.)	4(2) A 250 V~ SPDT
Output 2 (alarm relay)	4(2) A 250 V~ SPST
	e reports active/alarm1/alarm2
	Green/red/red LED
Delay on e.v. relay	~15 sec.
	Test/reset buttons
	3 modules for DIN rail
IP Rating	IP30
Dimensions (HxWxD)	96x53x73 mm

SGAMET: for methane in IP30 case
SGAGPL: for LPG in IP30 containers
SGIME1 / SGIME1M: for methane in IP54 case
**SGIGP1 / SGIGP1M**: for LPG in IP54 case

CO DETECTOR
RGICO0L42

The carbon monoxide (CO) leak detector is equipped with an internal sensor and two relay outputs. It also includes a test button and alarm reset button.

Technical Features

Power supply	230 V~ ±10%, 50 Hz
Relay output 1	6(2) A 250 V~ SPDT
Relay output 2	6(2) A 250 V~ SPDT
Internal sensor	Electrochemical
Pre-alarm threshold	16 ppm ± 4 ppm CO
Alarm threshold	80 ppm ± 4 ppm CO
Active/fault/alarm	Green/yellow/red LED
Dimensions (HxWxD)	100x130x62 mm
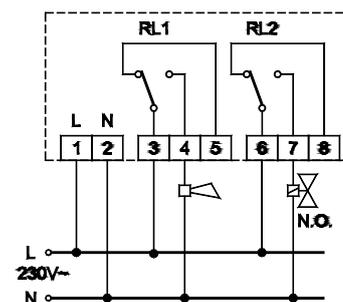
Accessories
ACCRIC0001
Pre-calibrated sensor

REMOTE SENSORS
SGIME1 Methane
SGIGP1 LPG

The remote gas leak sensor for methane (CH4) or LPG is powered by the control unit (7.5 Vdc via the device to which it is connected) and is housed in an IP54 case.
It is equipped with an internal semiconductor sensor with a service life of 5 years.
The alarm threshold is set at 10% L.E.L.

SGIME1M Methane
SGIGP1M LPG

The remote gas leak sensor for methane (CH4) or LPG is powered by 230 Vac and is housed in an IP54 case.
It is equipped with an internal semiconductor sensor with a service life of 5 years.
The alarm threshold is set at 10% L.E.L.

REMOTE METHANE OR LPG SENSOR
### *SGAMET Methane*
SGAGPL LPG

SGA--- gas sensors detect any methane (CH4) or LPG leaks. They are connected directly to the detector, to which they transmit a signal in the event of an alarm.

Technical Features

Power supply	6 V= .. 12 V= from the control unit
Power consumption	1 W
Output	ON-OFF voltage signal
Sensor Type	semiconductor (pre-calibrated)
Sensor life	5 years
Detectable gas	Methane or LPG
Sensitivity set t	10% L.E.L.
IP Rating	IP30
Dimensions (HxWxD)	90x65x30 mm

+V GND S
1 2 3
+ — OUT
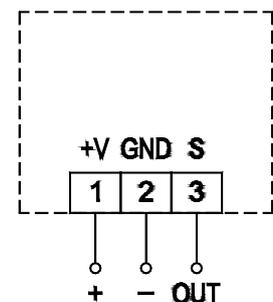
NORMALLY OPEN (N.A.) SOLENOID VALVES

Normally open solenoid valves for gas shut-off with manual reset.
During normal operation, there is no power consumption.
Power consumption: 19 VA.
Maximum Working pressure 500 mBar.

Code	Coupling size	Power supply	Coupling type
EVGPAFM015	DN15 (1/2")	230 Vac 19 VA	Threaded
EVGPAFM020	DN20 (3/4")	230 Vac 19 VA	Threaded
EVGPAFM025	DN25 (1")	230 Vac 19 VA	Threaded
EVGNAFM032	DN32 (1"1/4)	230 Vac 19 VA	Threaded
EVGNAFM040	DN40 (1½")	230 Vac 19 VA	Threaded
EVGNAFM050	DN50 (2")	230 Vac 19 VA	Threaded

ALSO AVAILABLE IN 12V VERSION

NORMALLY CLOSED (N.C.) SOLENOID VALVES

Normally closed solenoid valves for gas shut-off with manual reset;
they must be continuously powered to allow gas flow. During normal
operation, there is no power consumption.
Power consumption: 19 VA.
Maximum Working pressure 500 mBar.

Code	Coupling size	Power supply	Coupling type
EVGPCFM015	DN15 (1/2")	230 Vac 19 VA	Threaded
EVGPCFM020	DN20 (3/4")	230 Vac 19 VA	Threaded
EVGPCFM025	DN25 (1")	230 Vac 19 VA	Threaded
EVGNCFM032	DN32 (1"1/4)	230 Vac 19 VA	Threaded
EVGNCFM040	DN40 (1½")	230 Vac 19 VA	Threaded
EVGNCFM050	DN50 (2")	230 Vac 19 VA	Threaded

ALSO AVAILABLE IN 12V VERSION

Gas detection in residential and civil environments is crucial for preventing serious accidents such as explosions or poisoning. Methane and LPG are odourless and colourless explosive gases, making them difficult to detect without a specialised device. Carbon monoxide is also particularly dangerous, as it is odourless and can cause fatal poisoning even at low concentrations.

Seitron offers a complete range of residential gas detectors. These devices are essential for ensuring safety in the home, as they are designed to constantly monitor the air inside the home and alert residents in the event of dangerous gas leaks.

Residential gas
detectors

RESIDENTIAL GAS DETECTORS

NEW

Segugio evo

Beagle evo

Design and Made in ITALY
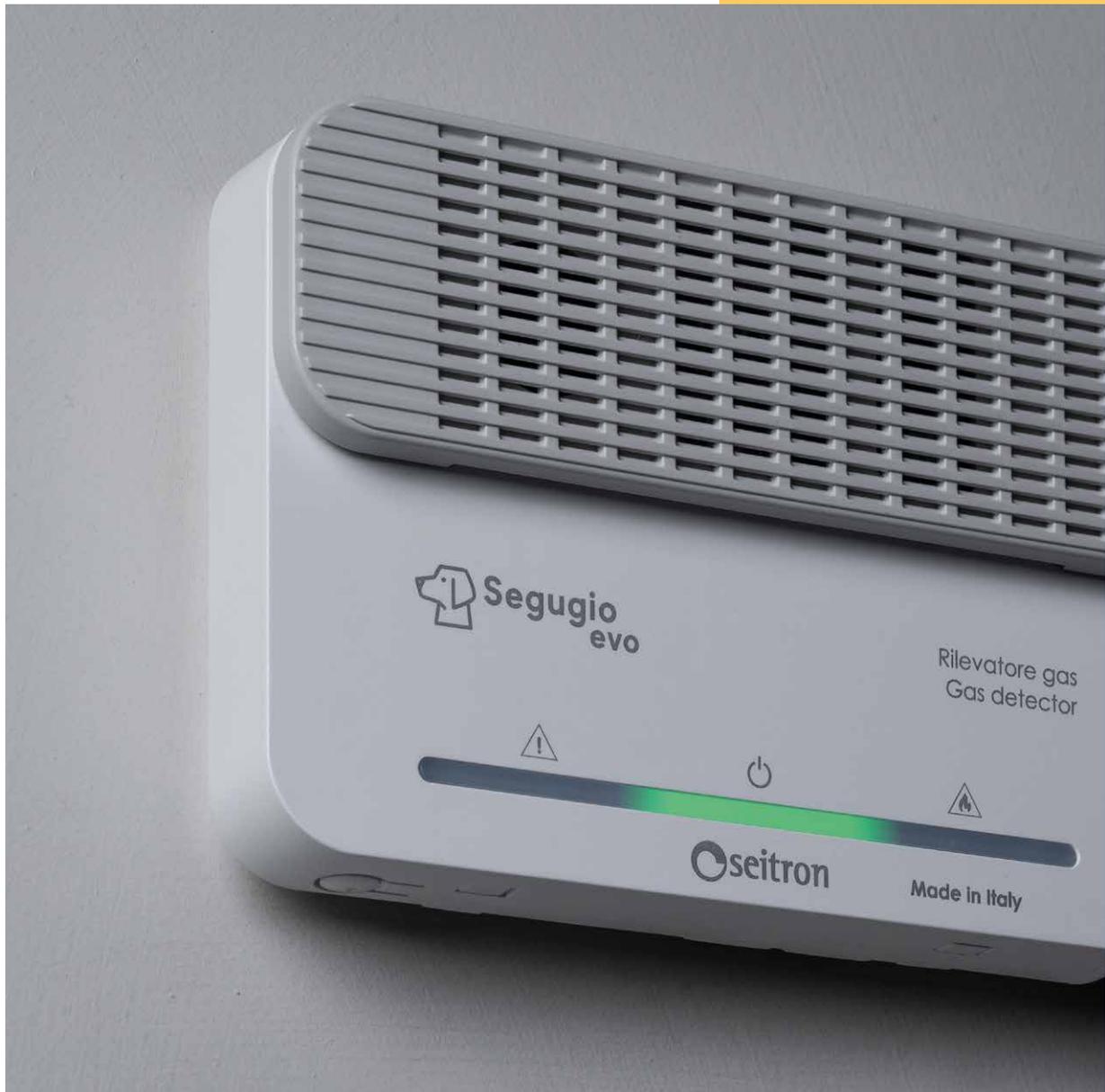
Segugio Evo and Beagle Evo line offers continuous 24/7 monitoring against methane, LPG and CO leaks and a system that automatically shuts off the gas for a home that is always protected.

Thanks to **EN50194-1:2023 Conformity** and **IMQ certification**, we guarantee a superior technological standard with quick and intuitive installation. The **IP42** Rating ensures resistance to dust and water, while the LED indicators and 85dB acoustic alarm provide clear signals.

CH4 | LPG | CO

Highlights

RELIABILITY AND CERTIFICATIONS
Compliance with EN 50194-1:2023 Standard and IMQ certification.

COMPLETE AND CONTINUOUS PROTECTION
24/7 monitoring for methane, LPG and CO, with the option of installing a solenoid valve for automatic gas shut-off.

OPERATIONAL EFFICIENCY AND SUSTAINABILITY
15-year service life (Segugio Evo range) and **sensor replaceable every 5 years**, thus reducing environmental impact.

ADVANCED RESISTANCE AND FUNCTIONALITY
The **IP42 IP Rating** ensures resistance to external agents, for continuous functionality.

Features	Segugio evo	Beagle evo
Detected gases	CO; CH$_4$; LPG	CO; CH$_4$; LPG
Visual and acoustic signals	✓	✓
Connection to solenoid valve (up to 250 Vac)	✓	✓
Connectable to remote sensor	✓	-
Number of manageable zones	Up to 2	-
Sensor life	15 years *	5 years
Replaceable sensor module	✓	-
Conformity with standard EN 50291-1: 2011 (CO version)	Yes (CO-A version)	Yes (CO-A version)
Conformity with standard EN 50194-1: 2023 (LPG, CH4 version)	✓	✓
IMQ certification	Yes (CH4 and LPG)	Yes (CH4 and LPG)
Wired Power Supply	✓	✓
Power supply with plug cable	✓	✓
Wireless solution with solenoid valve	✓	-

* The sensor must be replaced at the end of its service life, up to a maximum of 2 times.

Clear and immediate LED indicators

85 dB audible alarm

Wide coverage, maximum flexibility with the dedicated remote sensor

For extended protection in larger spaces, Segugio Evo incorporates a dedicated remote sensor that allows you to monitor several critical points in your home simultaneously.
Ideal for large spaces where a single detection source is not enough.

Maximum installation versatility: version with cable and plug

To ensure even faster and more flexible installation, the range is also available in a version equipped with cable and plug. This solution allows for immediate installation without the need for complex electrical work: simply connect the device to a standard power socket to instantly activate the continuous monitoring of your home.

METHANE GAS LEAK DETECTOR
SEGUGIO EVO CH4
RDMUX1R

NEW

Segugio Evo CH4 is a methane gas leak detector for residential and civil use, featuring an output relay to control a 230Vac or low-voltage solenoid valve. Thanks to the provision for connecting a remote sensor (SGA--), it is possible to monitor a second room with a single device. Thanks to the possibility of periodically replacing the sensor, the device has a lifespan of 15 years. The IMQ quality mark and Conformity with the recent EN 50194-1:2023 standard attest to the absolute reliability and efficiency of the device. The user can check the correct functioning or alarm status of the device thanks to the LED light bar and the multifunction button.

Technical Features

|	
Power supply	95 .. 250 Vac 50 .. 60 Hz
Sensor type	Semiconductor
Sensor service life	5 years (replaceable sensor)
Device lifespan	15 years from initial installation
Alarm threshold	10% L.E.L.
Contact rating	6(2) at 250 V (SPDT) tension-free
Audible alarm	85 dB(A)@1 m
Visual indicators:	Green LED: activation
	Red LED: alarm
	Yellow LED: fault
IP Rating	IP42
Dimensions (HxWxD)	93 x 138 x 34 mm

Accessories

SGAMET
Remote sensor for methane (CH4)

ACQM01
Pre-calibrated sensor for methane (CH4)
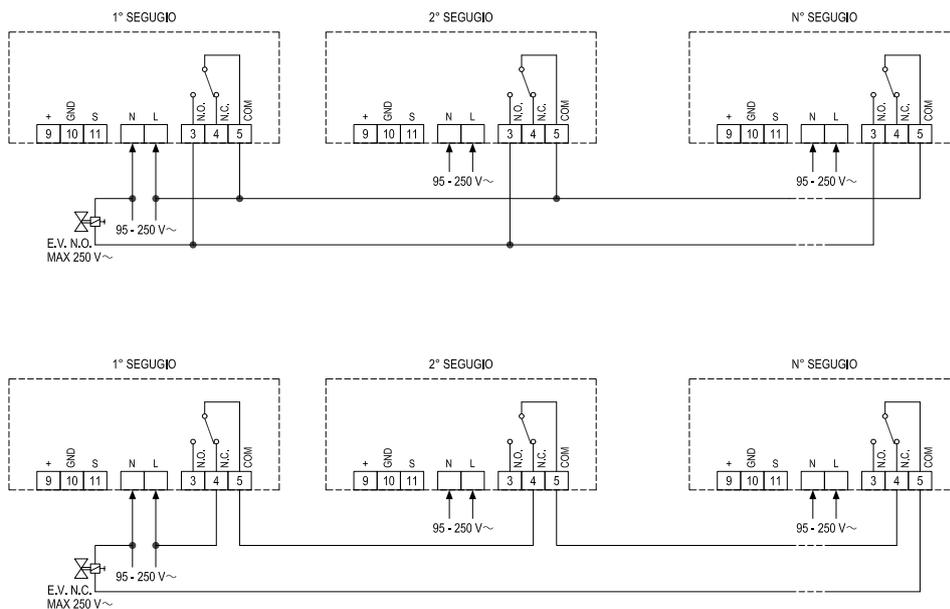
LPG GAS LEAK DETECTOR
SEGUGIO EVO LPG
RDGUX1R

NEW

Segugio Evo LPG is a LPG gas leak detector for residential and civil use, featuring an output relay to control a 230Vac or low-voltage solenoid valve. Thanks to the provision for connecting a remote sensor (SGA--), it is possible to monitor a second room with a single device. Thanks to the possibility of periodically replacing the sensor, the device has a lifespan of 15 years. The IMQ quality mark and Conformity with the recent EN 50194-1:2023 standard attest to the absolute reliability and efficiency of the device.
The user can verify the correct operation or alarm status of the device thanks to the LED light bar and the multifunction button.

Technical Features

Power supply	95 .. 250 Vac 50 .. 60 Hz
Sensor type	Semiconductor
Sensor service life	5 years (replaceable sensor)
Device lifespan	15 years from initial installation
Alarm threshold	10% L.E.L.
Contact rating	6(2) at 250 V (SPDT) tension-free
Audible alarm	85 dB(A)@1 m
Visual indicators:	Green LED: activation
	Red LED: alarm
	Yellow LED: fault
IP Rating	IP42
Dimensions (HxWxD)	93 x 138 x 34 mm

Accessories

SGAGPL
Remote sensor for LPG

ACQG01
Pre-calibrated sensor for LPG
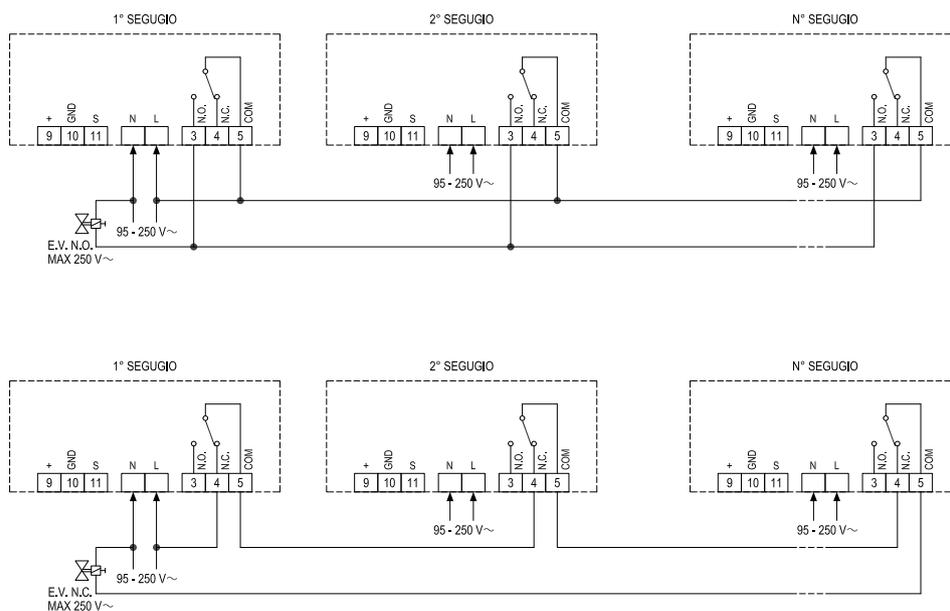
CO GAS LEAK DETECTOR

Threshold Mode
SEGUGIO EVO CO-T - RDCUX1R

Accumulation Mode
SEGUGIO EVO CO-A - RDKUX1R

NEW

Design and Made in ITALY

Segugio Evo CO is a storage-type carbon monoxide gas leak detector for residential and civil use, featuring an output relay to control a 230Vac or low-voltage solenoid valve. Thanks to the provision for connecting a remote sensor (SGA--), it is possible to monitor a second room with a single device. By periodically replacing the sensor, the device has a service life of 15 years.

On version with accumulation mode, the detection of carbon monoxide is carried out by simulating the accumulation behaviour of the gas in the human body, in accordance with standard EN 50291-1:2011.

The user can verify the correct operation or alarm status of the device thanks to the LED light bar and the multifunction button.
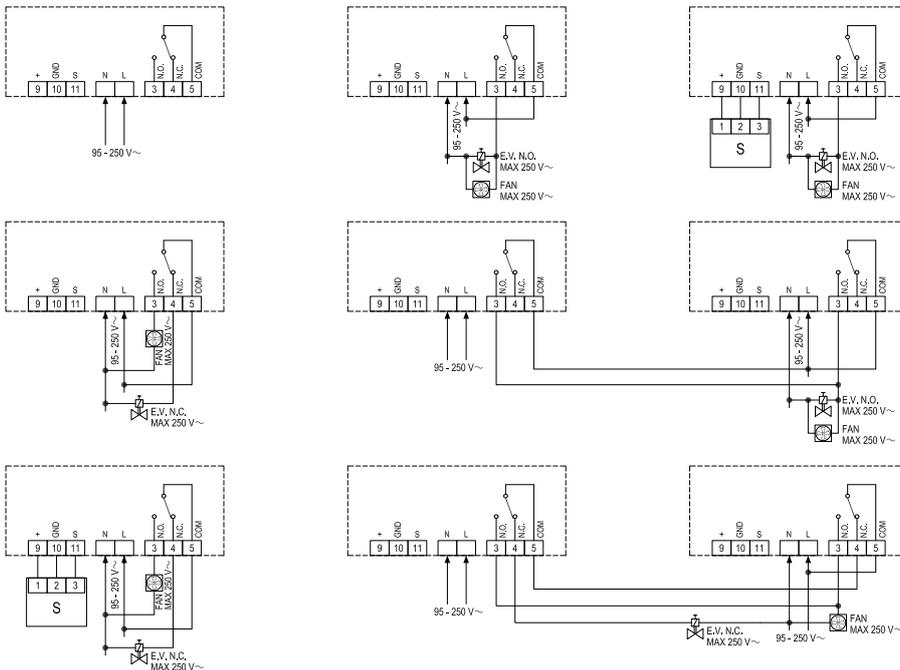
Accessories

ACQC01
Pre-calibrated CO sensor

Technical Features

Power supply	95 .. 250 Vac 50 .. 60 Hz
Sensor type	Elettrochemical
Sensor service life	5 years (replaceable sensor)
Device lifespan	15 years from initial installation
Alarm threshold (for CO-T)	Pre-alarm: 50 ppm
	Alarm: 100 ppm
Contact rating	6(2) at 250 V (SPDT) tension-free
Audible alarm	85 dB(A)@1 m
Visual indicators:	Green LED: activation
	Red LED: alarm
	Yellow LED: fault
IP Rating	IP42
Dimensions (HxWxD)	93 x 138 x 34 mm

METHANE GAS LEAK DETECTOR
BEAGLE EVO CH4 - RDMAX1R
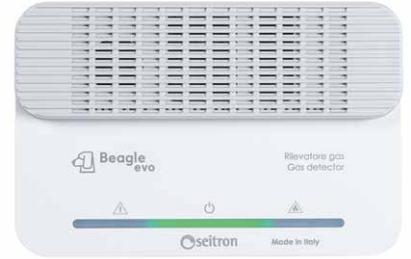## BEAGLE EVO S CH4 - RDMAX2R *with 2 m plug cable*

NEW

Design and Made in ITALY

Beagle Evo CH4 is a methane gas leak detector for residential and civil use, featuring an output relay to control a 230Vac or low-voltage solenoid valve.
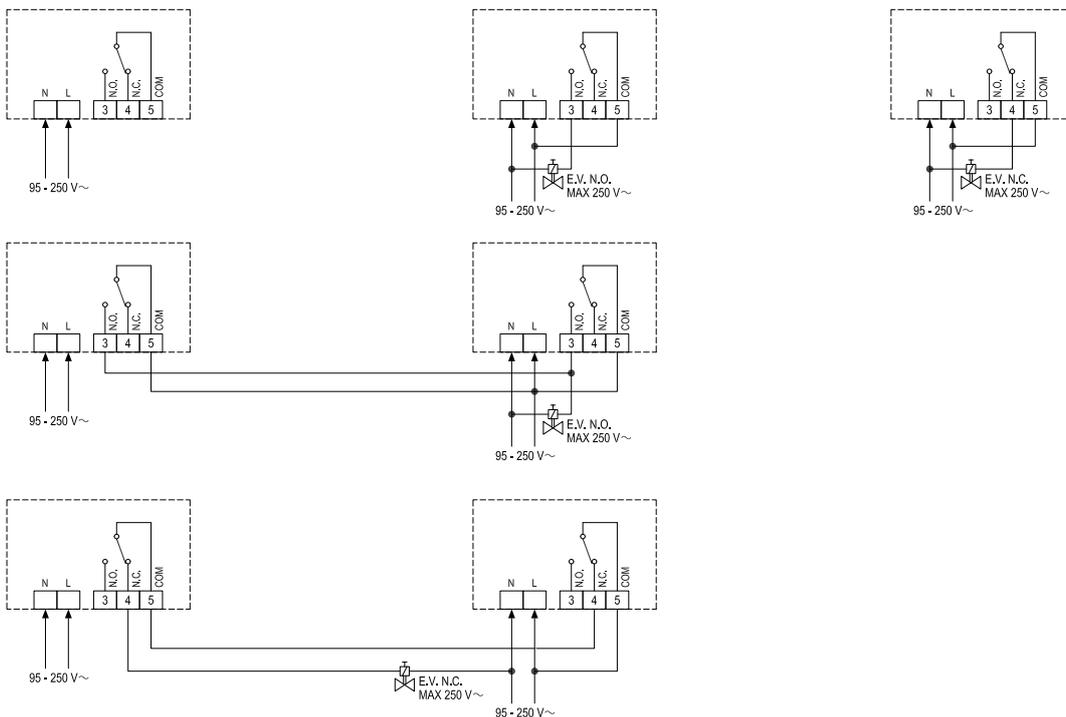The IMQ quality mark and Conformity with the recent EN 50194-1:2023 standard certify the absolute reliability and efficiency of the device.
The user can check the correct operation or alarm status of the device thanks to the LED light bar and the multifunction button.

Technical Features

Power supply	95 .. 250 Vac 50 .. 60 Hz
Sensor type	Semiconductor
Sensor service life	5 years
Alarm threshold	10% L.E.L.
Contact rating	6(2) at 250 V (SPDT) tension-free
Audible alarm	85 dB(A)@1 m
Visual indicators:	Green LED: activation
	Red LED: alarm
	Yellow LED: fault
IP Rating	IP42
Dimensions (HxWxD)	93 x 138 x 34 mm

LPG GAS LEAK DETECTOR
BEAGLE EVO LPG - RDGAX1R
BEAGLE EVO S LPG - RDGAX2R *with 2 m plug cable*
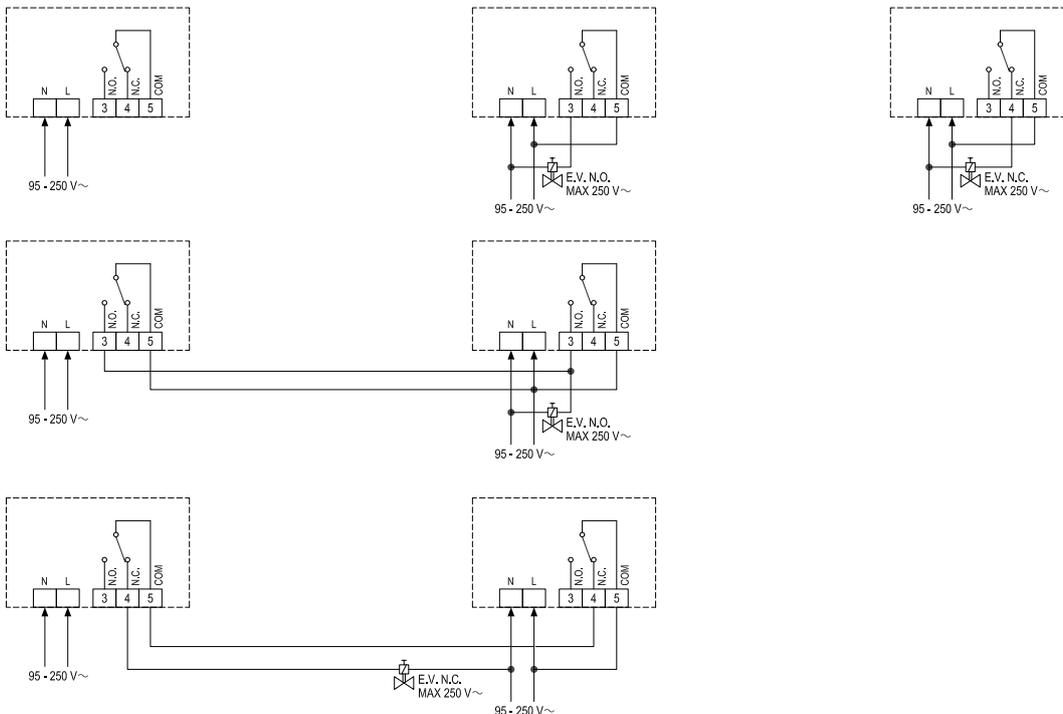
NEW

Design and Made in ITALY

Beagle Evo LPG is a LPG gas leak detector for residential and civil use, featuring an output relay to control a 230Vac or low-voltage solenoid valve.

The IMQ quality mark and Conformity with the recent EN 50194-1:2023 standard certify the absolute reliability and efficiency of the device. The user can check the correct operation or alarm status of the device thanks to the LED light bar and the multifunction button.

Technical Features

Power supply	95 .. 250 Vac 50 .. 60 Hz
Sensor type	Semiconductor
Sensor service life	5 years
Alarm threshold	10% L.E.L.
Contact rating	6(2) at 250 V (SPDT) tension-free
Audible alarm	85 dB(A)@1 m
Visual indicators:	Green LED: activation
	Red LED: alarm
	Yellow LED: fault
IP Rating	IP42
Dimensions (HxWxD)	93 x 138 x 34 mm

CO GAS LEAK DETECTOR

Threshold Mode
BEAGLE EVO CO-T - RDCAX1R
BEAGLE EVO S CO-T - RDCAX2R *with 2 m plug cable*

Accumulation Mode
BEAGLE EVO CO-A - RDKAX1R
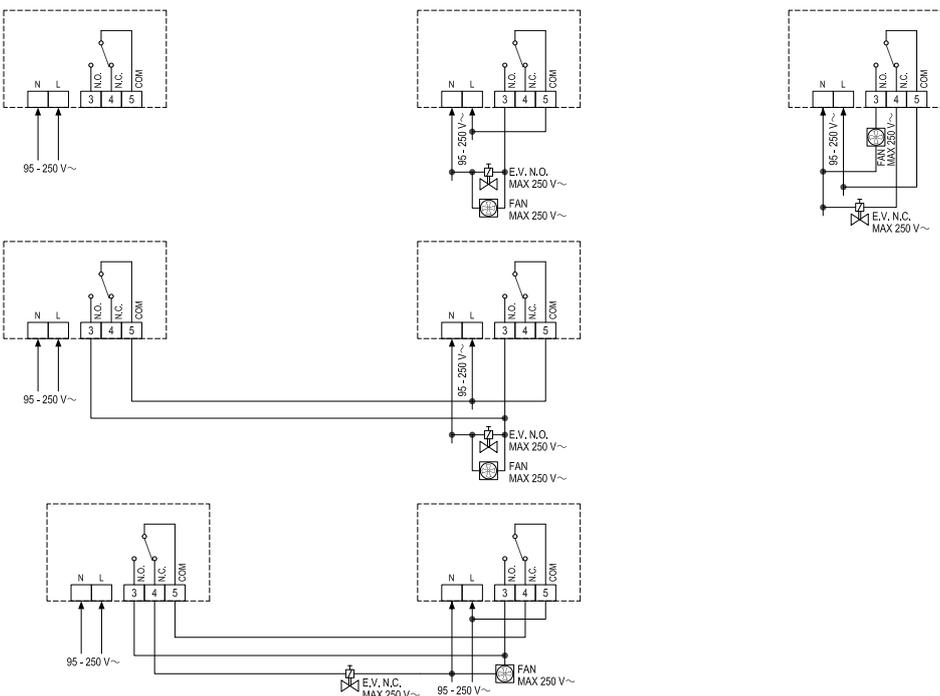## BEAGLE EVO S CO-A - RDKAX2R *with 2 m plug cable*

NEW

Design and Made in ITALY

Beagle Evo CO is a carbon monoxide gas leak detector for residential and civil use, featuring an output relay to control a 230Vac or low-voltage solenoid valve. On versions with accumulation mode, the detection of carbon monoxide is carried out by simulating the accumulation behaviour of the gas in the human body, in accordance with standard EN 50291-1:2011. The user can verify the correct operation or alarm status of the device thanks to the LED light bar and the multifunction button.

Technical Features

Power supply	95 .. 250 Vac 50 .. 60 Hz
Sensor type	Elettrochemical
Sensor service life	5 years
Alarm threshold (for CO-T)	Pre-alarm: 50 ppm
	Alarm: 100 ppm
Contact rating	6(2) at 250 V (SPDT) tension-free
Audible alarm	85 dB(A)@1 m
Visual indicators:	Green LED: activation
	Red LED: alarm
	Yellow LED: fault
IP Rating	IP42
Dimensions (HxWxD)	93 x 138 x 34 mm

MODBUS® GAS DETECTION CONTROL UNIT
## *4 ZONES AND UP TO 256 INPUTS*
RYB01M

The gas control unit with Modbus® communication is a central unit for gas detection systems in residential and commercial buildings (e.g. apartment buildings). By interfacing with the concentrator modules (ACIM01), the MASTER control unit is able to acquire the status of the output relay contacts of domestic gas detectors. The control unit can manage up to 32 ACIM01 concentrator modules (SLAVE). In addition, it is possible to combine up to 4 zones of up to 8 concentrators each.

The unit is equipped with 5 voltage-free changeover contacts with column management (4 alarm relays + 1 auxiliary relay).

It is suitable for mounting on an 8-module DIN rail.

Technical Features

Power supply	230 V~ 50/60 Hz or 12 Vdc
	5 x 8 A 250 V SPDT outputs
	1 .. 4: Gas shut-off valve control
	5: Common auxiliary function
Modbus® output	via RS485 with Modbus® RTU protocol
Settings	9600, 8, N, 1
Dimensions (HxWxD)	90x158x71 mm
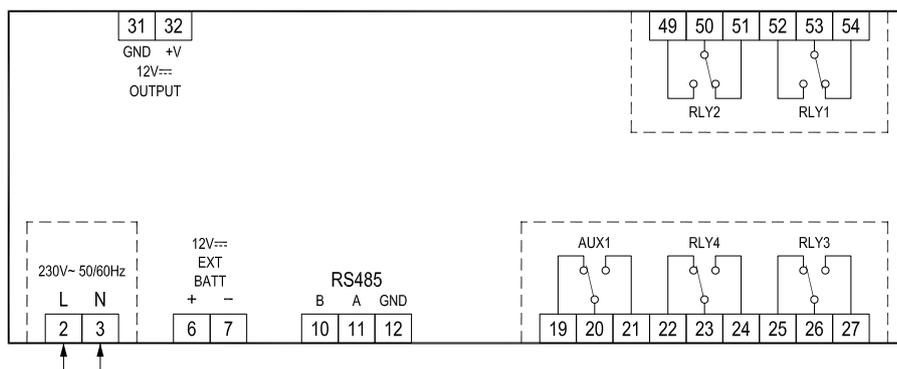
CONCENTRATOR MODULE WITH 8 INPUTS
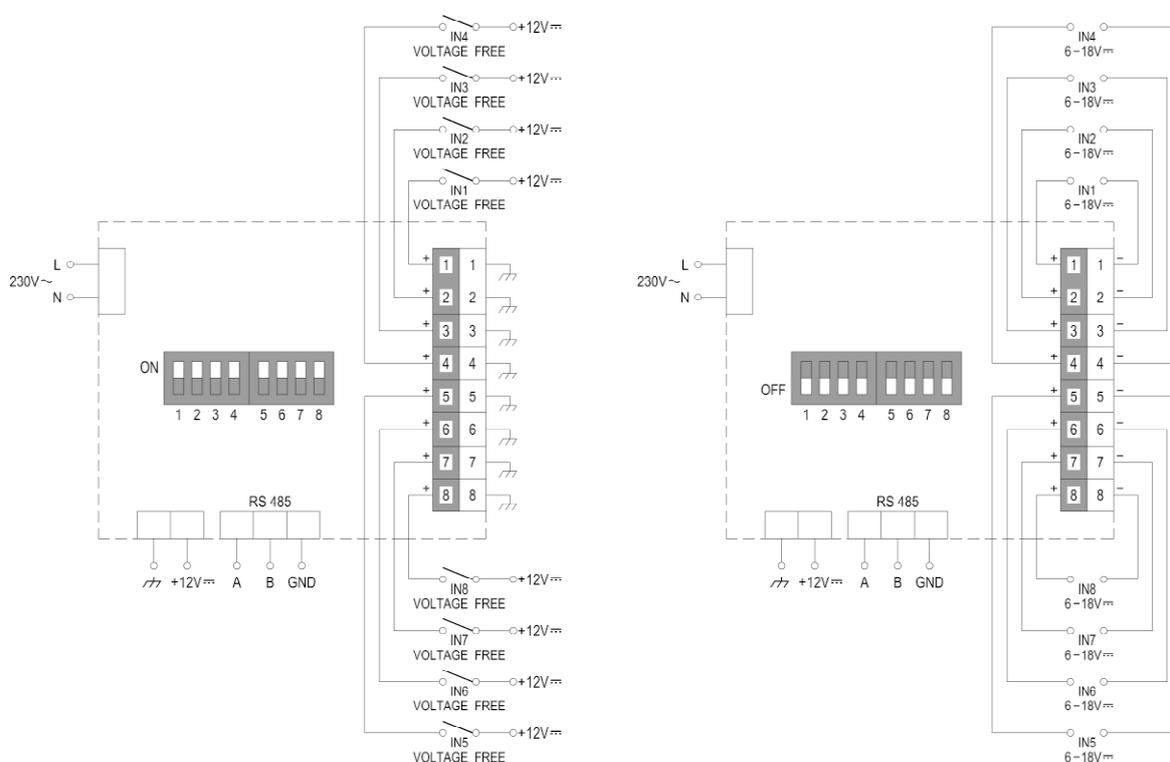## *FOR GAS DETECTION SYSTEM*
ACIM01

The Modbus® interface module can receive signals from 8 devices. It is equipped with 8 opto-isolated inputs, to which ON/OFF signals or live signals can be applied. The module address (from 01 to 32) is set using two internal rotary switches.
The concentrator can be installed on a wall or on a DIN rail.

Technical Features

Power supply	230 Vac, 50/60 Hz
	8 opto-isolated inputs
Transmitter input	Clean contact / 6 .. 18 Vdc
Voltage range	10.8 V .. 26.4 V
Modbus® output	via RS485 with Modbus® RTU protocol
	settings 9600, 8, N, 1
Dimensions (HxWxD)	100x130x60 mm

WIRED GAS LEAK DETECTION SYSTEM - CIVIL USE

The system shown below is an example of centralised management of a gas leak detection system in an apartment building.
It can be configured by connecting the following Seitron devices:

- up to 256 Beagle Evo or Segugio Evo residential gas detectors, installed in each flat
- up to 32 Modbus® concentrators (ACIM01), typically installed on each floor
- gas solenoid valves associated with each zone
- 1 Modbus® control unit (RYB01M), typically installed in a service room on the ground floor of the building.

The gas detectors installed in each flat are connected to one or more concentrators located on the floor. Each concentrator can receive 8 different alarms.
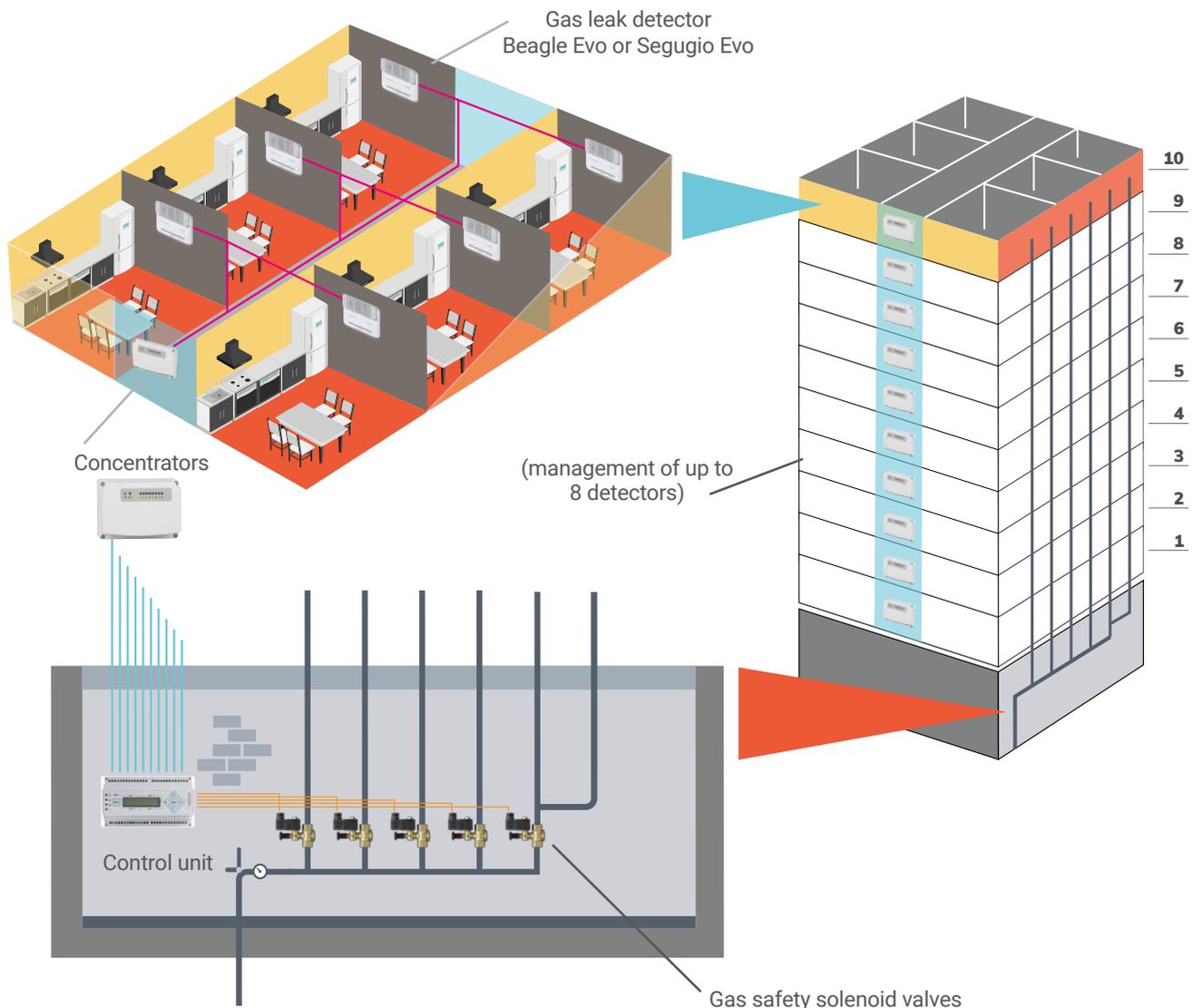Each concentrator, in turn, can be connected to the next one, thanks to Modbus® protocol communication (2 wires). This allows all concentrators to transmit alarms received from individual flats to a control unit.
Up to 32 concentrators can be connected to the control unit, for a total of 256 flats.
Alternatively, each control unit can be combined with 4 zones of up to 8 concentrators each.
Each zone is associated with a relay which, in the event of an alarm, closes the gas solenoid valve for that zone.
An example of a zone is a staircase in a building.

Gas leak detector
Beagle Evo or Segugio Evo

Concentrators

(management of up to 8 detectors)

Control unit

Gas safety solenoid valves

RADIO DEVICES

The range of radio devices for gas detection has been developed by Seitron to simplify the installation of gas detectors in residential or commercial contexts where there are multiple detection points or where wiring between the detector and the gas shut-off point (with solenoid valve) is not straightforward.

Communication between the detector and the receiver takes place via Seitron's proprietary radio protocol, developed on a transmission frequency of 868.15 MHz. This ensures a secure, stable signal that is free from interference and capable of reaching long distances.

If some detectors are particularly far from the receiver, a special repeater device can be used to extend the working distance between the system components by doubling or tripling it.
Thanks to the radio system antenna inserted in both the detector/transmitter and the receiver of the system, it is possible to have a large number of Segugio Evo Radio detectors working simultaneously. In the event of an alarm, these transmit the alarm or fault signal to the radio receiver. The latter will activate the relevant actuators (e.g. solenoid valve) thanks to the exchange relays with which it is equipped.

SEGUGIO EVO RADIO
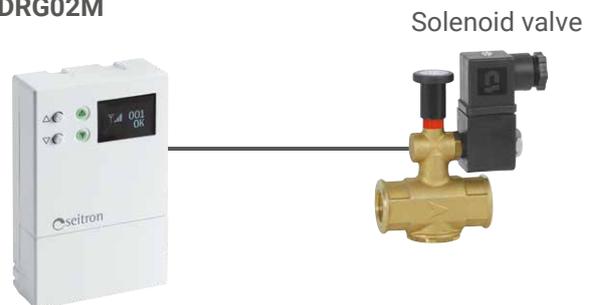**Working Diagram**

Segugio Evo Radio methane
DDMUX1R

Receiver for up to 12 detectors
DRG01M

Solenoid valve
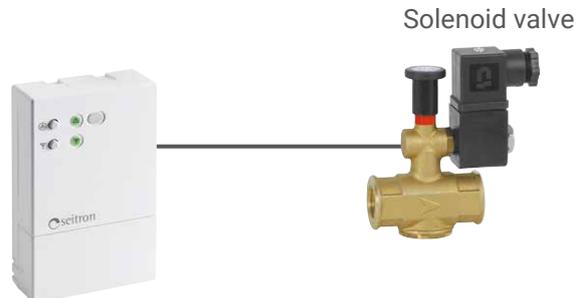
Segugio Evo Radio LPG
DDGUX1R

Receiver for up to 100 detectors
DRG02M

Solenoid valve

METHANE OR LPG GAS LEAK DETECTOR
SEGUGIO EVO R CH4 - DDMUX1R Methane
SEGUGIO EVO R LPG - DDGUX1R LPG

Segugio Evo Radio, configured for detecting methane (CH4) or LPG gas leaks, integrates the features of Segugio Evo and wireless communication, thanks to the radio transmitter module.

It is a gas leak detectoris for residential and civil use, featuring an output relay to control a 230Vac or low-voltage solenoid valve.

Thanks to the provision for connecting a remote sensor (SGA--), it is possible to control a second room with a single device. The quality of detection is guaranteed by Conformity with the recent EN 50194-1:2023 standard.

Thanks to the possibility of periodically replacing the sensor, the device has a lifespan of 15 years.

The user can verify the correct operation or alarm status of the device thanks to the LED light bar and the multifunction button.

The radio transmitter module sends "fault" and "alarm" statuses to the gas alarm receiver (DRG01M or DRG02M).

Technical Features

Power supply	95 .. 250 Vac 50 .. 60 Hz
Sensor type	Semiconductor
Sensor service life	5 years (replaceable sensor)
Device lifespan	15 years from initial installation
Alarm threshold	10% L.E.L.
Contact rating	6(2) at 250 V (SPDT) tension-free
Audible alarm	85 dB(A)@1 m
Visual indicators:	Green LED: activation
	Red LED: alarm
	Yellow LED: fault
IP Rating	IP42
Dimensions (HxWxD)	93 x 138 x 34 mm

Accessories

SGAMET
Remote sensor for methane (CH4)

SGAGPL
Remote sensor for LPG

ACQM01
Pre-calibrated sensor for methane (CH4)
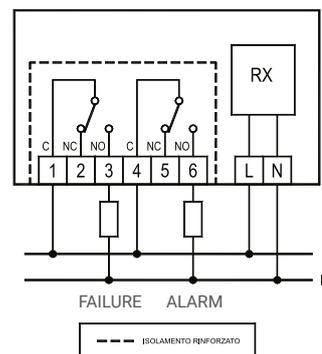
ACQG01
Pre-calibrated sensor for LPG

GAS ALARM RECEIVER

DRG01M

The radio receiver can receive signals from 12 Segugio Wireless gas detectors, activating a load or solenoid valve in the event of an alarm, sensor failure or other fault. This is possible thanks to the 2 SPDT output relays available. The two multicoloured LEDs allow the user to view the alarm or fault status and the quality of the radio communication. Thanks to the self-learning feature, device pairing is quick and easy.

Technical Features

Power supply	230 V~ 50 Hz
Power consumption	11 VA
Output (relay)	2x6 A 250 V~
Transmission frequency	868.150 MHz
Antenna type	Internal stylus
	two-colour LED indicators Gas status/transmission quality
IP Rating	IP3X
Dimensions (HxWxD)	125x78x30.5 mm

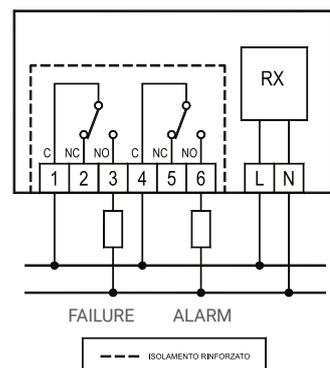# 100-CHANNEL GAS ALARM RECEIVER

DRG02M

Compared to DRG01M, the 100-channel radio receiver can manage up to 100 Segugio Wireless detectors.
It also features a graphic display that facilitates pairing between the detector and receiver, providing diagnostic information on the system or individual components. The receiver stores and displays a list of any detectors in alarm.

Technical Features

Power supply	230 V~ 50 Hz
Power consumption	11 VA
Output (relay)	2x6 A 250 V~
Transmission frequency	868.150 MHz
Antenna type	Internal stylus
	two-colour LED indicators Gas status/transmission quality
IP Rating	IP3X
Dimensions (HxWxD)	125x78x30.5 mm

RADIO-CONTROLLED SEGUGIO EVO
KGMU01 - SEGUGIO EVO R CH4 KIT
KGGU01 - SEGUGIO EVO R LPG KIT

METHANE RADIO DETECTOR KIT WITH RECEIVER

Kit consisting of Segugio Evo R CH4 (DDMUX1R)
and radio receiver (DRG01M)

LPG RADIO DETECTOR KIT WITH RECEIVER

Kit consisting of Segugio Evo R LPG (DDGUX1R)
and radio receiver (DRG01M)

SEGUGIO EVO KIT + N.O. SOLENOID VALVE
KDMU01 - SEGUGIO EVO CH4 N.O. KIT
KDGU01 - SEGUGIO EVO LPG N.O. KIT

METHANE DETECTOR KIT WITH SOLENOID VALVE

Kit consisting of Segugio Evo CH4 (RDMUX1R)
and Normally Open solenoid valve
DN20 (3/4") 230V (EVGPAFM020)

LPG DETECTOR KIT WITH SOLENOID VALVE

Kit consisting of Segugio Evo LPG (RDGUX1R)
and Normally Open solenoid valve
DN20 (3/4") 230V (EVGPAFM020)

# REMOTE METHANE OR LPG SENSOR (ONLY FOR SEGUGIO)
SGAMET Methane
SGAGPL LPG

SGA--- gas sensors detect any methane (CH4) or LPG leaks.
They are connected directly to the Segugio Plus or Segugio Evo or Segugio Wireless detector, to which they transmit a signal in the event of an alarm.

Technical Features

Power supply	6 V= .. 12 V= from the control unit
Power consumption	1 W
	output ON-OFF voltage signal
Sensor type	Semiconductor (pre-calibrated)
Sensor life	5 years
Detectable gas	Methane or LPG
Sensitivity set	10% L.E.L.
IP Rating	IP30
Dimensions (HxWxD)	90x65x30 mm
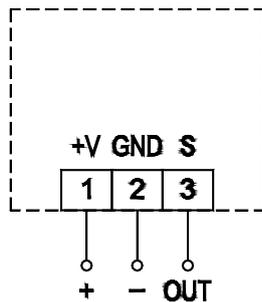
RADIO GAS LEAK DETECTION SYSTEM - CIVIL USE

The system shown below is an example of wireless management of a gas leak detection system.
This application is the optimal solution in buildings where wiring between the gas detector and the actuators to be controlled is not possible. Thanks to the radio Working on the 868.15 MHz frequency, greater freedom from interference and greater efficiency in signal propagation are guaranteed.

The system can be configured by connecting the following Seitron devices:
• up to 100 Segugio Wireless residential gas detectors, installed in each room or flat
• 1 or more radio receivers (DRG01M or DRG02M)
• gas solenoid valves associated with each zone

The DRG01M receiver can receive alarm signals from up to 12 detectors, while the DRG02M can communicate with up to 100 detectors, each installed in a different flat.
In the event of a gas leak detected by one of the installed detectors, the receiver activates a solenoid valve that will shut off the gas supply.
The number of detectors that can transmit the signal to a receiver depends heavily on the distance between devices (maximum 50 metres) and the way in which the building structure has been constructed.

In fact, the concrete and iron present in buildings have a decisive influence on the transmission distance and therefore on the number of detectors that can be connected to a single receiver.
We recommend installing one receiver every two floors. In any case, the device allows you to view the signal strength, which is extremely useful for positioning the receiver correctly and deciding how many detectors can be connected to a single receiver.

Gas leak detector via radio Segugio

100 receiver channels

Gas solenoid valve
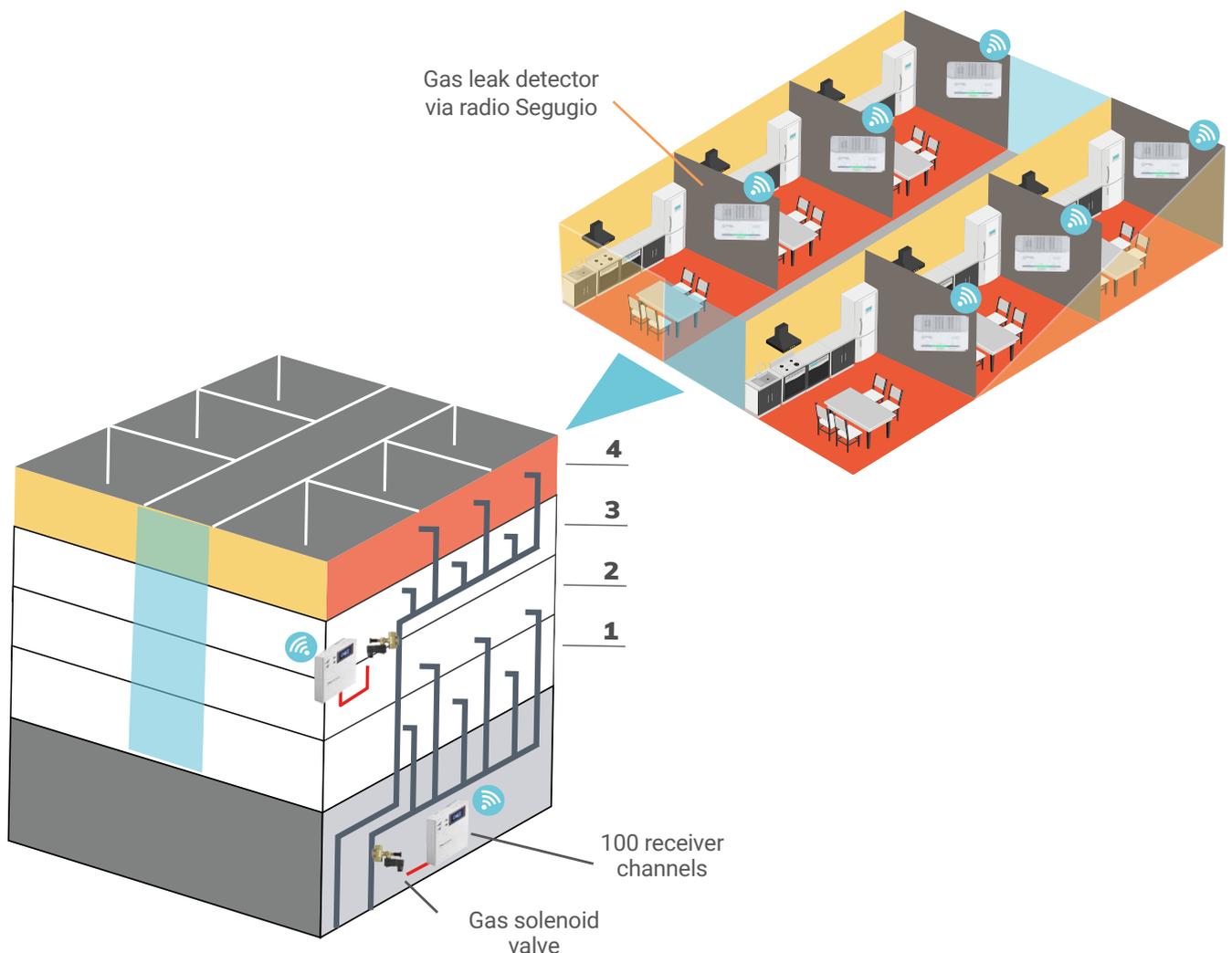
ACCESSORIES FOR SEGUGIO PLUS AND BEAGLE PLUS

ACMM01
Pre-calibrated replaceable sensor module for methane (CH4) gas detectors. Compatible with Segugio and Beagle Plus detectors (wired and wireless versions).

ACMG01
Pre-calibrated replaceable sensor module for LPG gas detectors. Compatible with Segugio and Beagle Plus detectors (wired and wireless versions).

ACMC01
Pre-calibrated replaceable sensor module for storage and threshold carbon monoxide (CO) detectors. Compatible with Segugio and Beagle Plus detectors (wired and wireless versions).

CHM1580001
Test canister for checking the operation of methane (CH4) and LPG gas detectors, with non-titrated gas. Gas quantity sufficient for approximately 70 tests.

ACCESSORIES FOR SEGUGIO EVO AND BEAGLE EVO

ACQM01
Pre-calibrated replaceable sensor module for methane (CH4) gas detectors. Compatible with Segugio Evo detectors (wired and wireless versions).

ACQG01
Replaceable pre-calibrated sensor module for LPG gas detectors. Compatible with Segugio Evo detectors (wired and wireless versions)

ACQC01
Replaceable pre-calibrated sensor module for storage and threshold carbon monoxide (CO) detectors. Compatible with Segugio Evo detectors (wired and wireless versions)

CHM1580001
Test canister for checking the operation of methane (CH4) and LPG gas detectors, with non-titrated gas. Gas quantity sufficient for approximately 70 tests.

SEITRON SUPPORT AND WARRANTY

Seitron is at your complete disposal to provide existing and potential customers with all the information they need during the pre- and post-sales phases.

Our staff, thanks to their many years of experience in the sector, will be happy to provide support at every stage of the purchase process, right through to the resolution of any issues that may arise during use of the product.

CONTACT US
customer.care@seitron.it

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TALK WITH US
+39 0424 567842

AUTHORISATION FOR RETURN

Contact Seitron Customer Care to request your **return authorisation number (RMA)**.

online form

customer.care@seitron.it

0424 567842 (Extension 1)

WhatsApp 329 144 4390

Once obtained, wait for instructions on how to send the goods. Returns must always be accompanied by a Transport Document, where the authorisation number is present. Returns without an RMA will lose their priority.

Following careful technical verification, Seitron undertakes to repair or replace products covered by warranty, returning them to the customer at its own expense.

EASY RETURN PROCEDURE

With a view to the continuous development of its products, Seitron reserves the right to make changes to technical data and performance without prior notice. Visit our website www.seitron.com to view the latest version of technical documentation, manuals and catalogues.

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