Residential Gas Detectors

Segugio *evo*

Beagle *evo*

Design and Made in ITALY

Beagle *evo*

Segugio *evo*

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Oseitron

Oseitron

RESIDENTIAL GAS DETECTORS

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.

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

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.

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

Segugio Evo & Beagle Evo comparison

Feature	Beagle Evo	Segugio Evo
Wired power supply	Beagle Evo CO Beagle Evo CH4 Beagle Evo LPG	Segugio Evo CO Segugio Evo CH4 Segugio Evo LPG
Power supply with plug cable	Beagle Evo S CO Beagle Evo S CH4 Beagle Evo S LPG	On request
Wireless communication with electrovalve (Radio protocol 868.15 MHz)	n.a.	Segugio Evo R CH4 Segugio Evo R LPG
Kit with detector and N.O. electrovalve (230 Vac)	Kit Beagle Evo CH4 N.O. Kit Beagle Evo LPG N.O.	Kit Segugio Evo CH4 N.O. Kit Segugio Evo LPG N.O.
Kit with detector and wireless receiver (DRG01M)	n.a.	Kit Segugio Evo R CH4 Kit Segugio Evo R LPG

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.

Segugio
evo

Design for a sustainable future

Built to last 15 years
Reliable sensor for 5 years

METHANE GAS LEAK DETECTOR
SEGUGIO EVO CH4
RDMUX1R

NEW

Design and Made in ITALY

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)
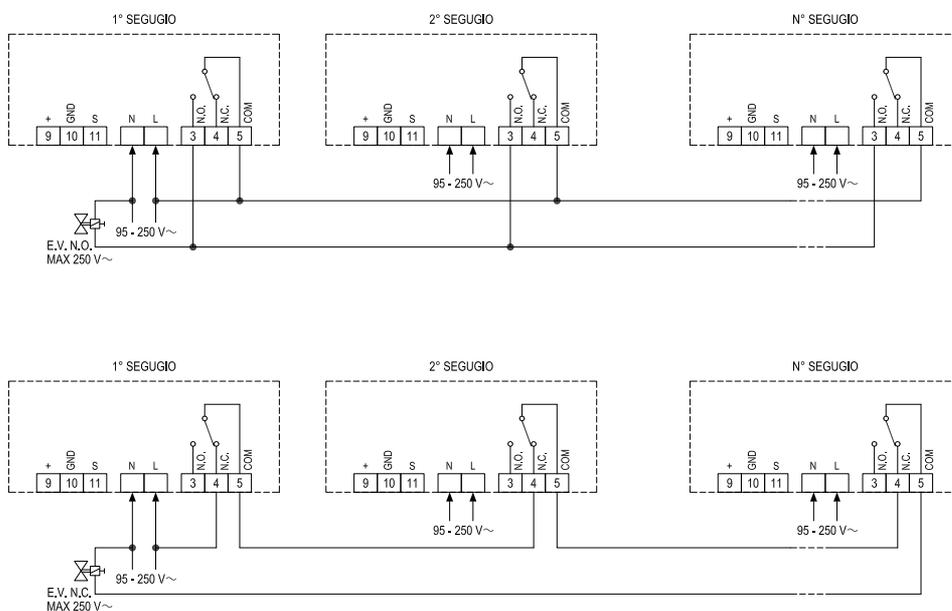
LPG GAS LEAK DETECTOR
SEGUGIO EVO LPG
RDGUX1R

NEW

Design and Made in ITALY

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
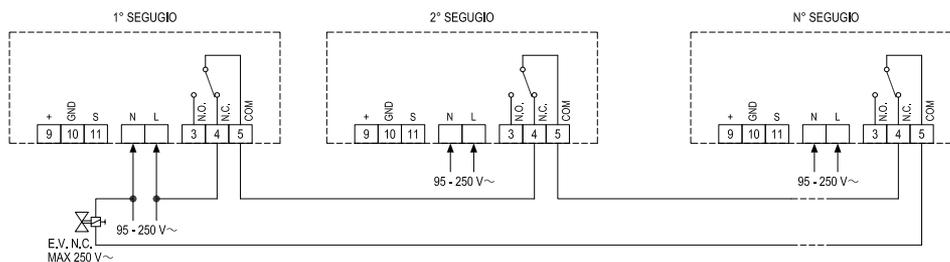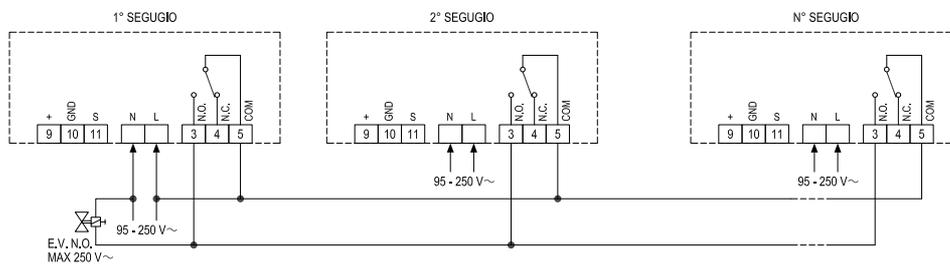
CO GAS LEAK DETECTOR

Threshold Mode
SEGUGIO EVO CO-T - RDCUX1R

Accumulation Mode
SEGUGIO EVO CO-A - RDKUX1R

Design and Made in ITALY

NEW

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.
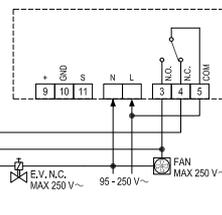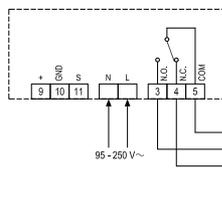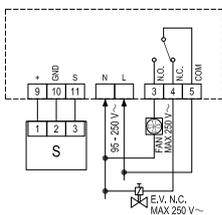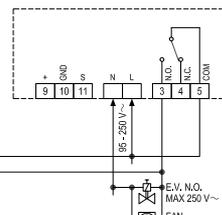
Accessories

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.

CONFORME NORME - UNI EN DI SICUREZZA
IMQ-CIG

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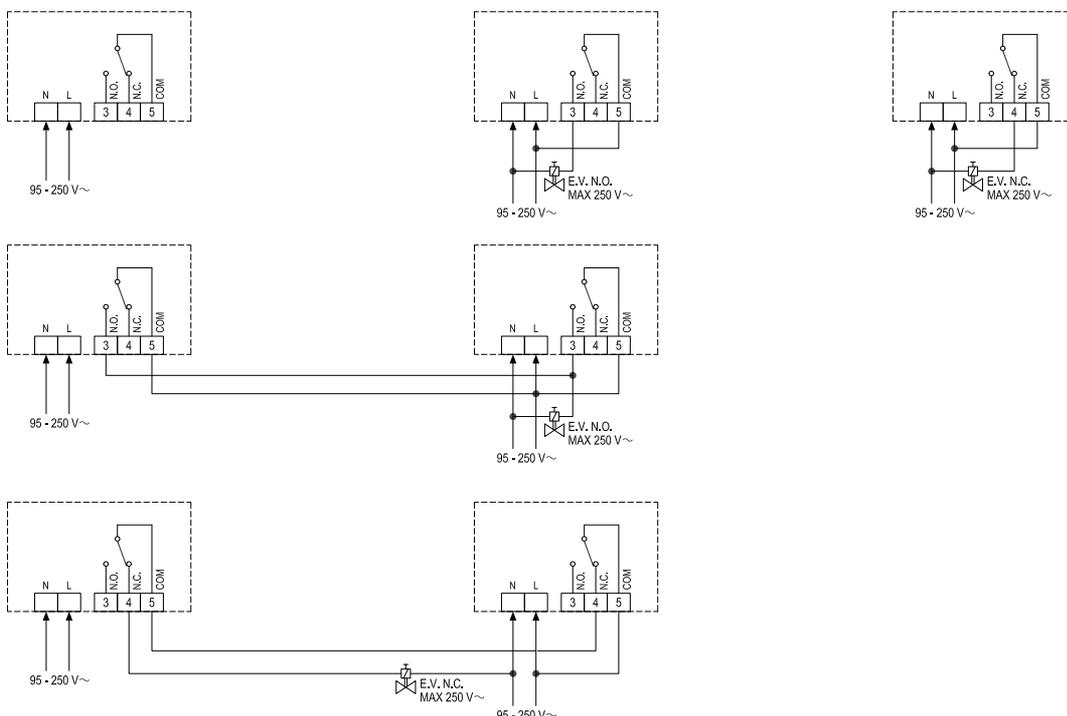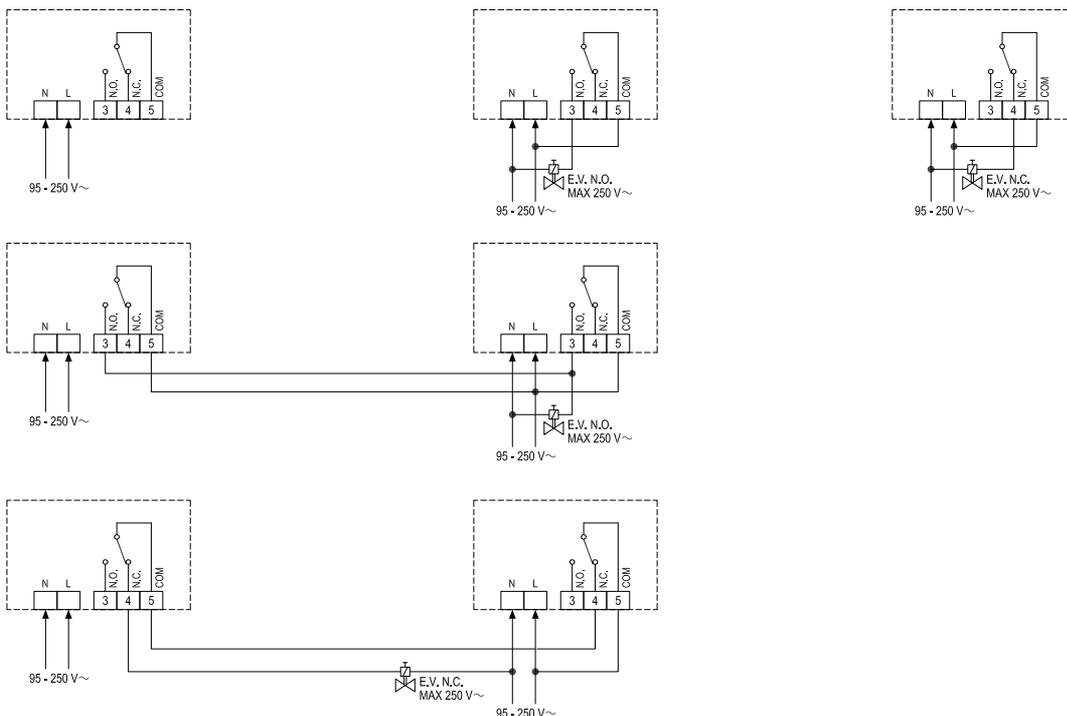
The IMQ quality mark and Conformity with the recent EN 50194-1:2023 standard certify the absolute reliability and efficiency of the device. The user can check the correct operation or alarm status of the device thanks to the LED light bar and the multifunction button.

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
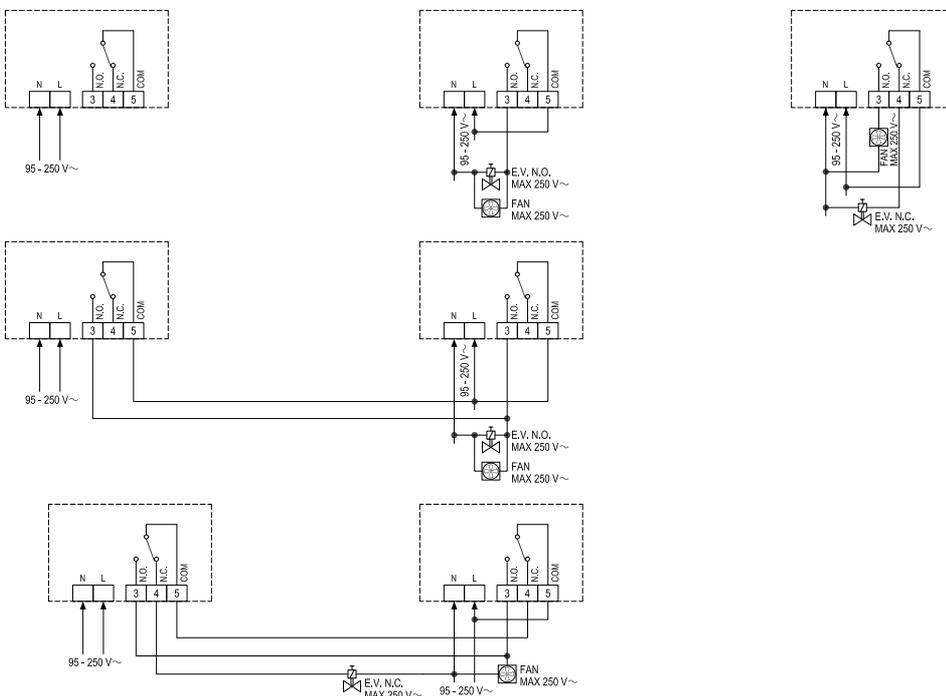*BEAGLE EVO S CO-A - RDKAX2R* with 2 m plug cable

NEW

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
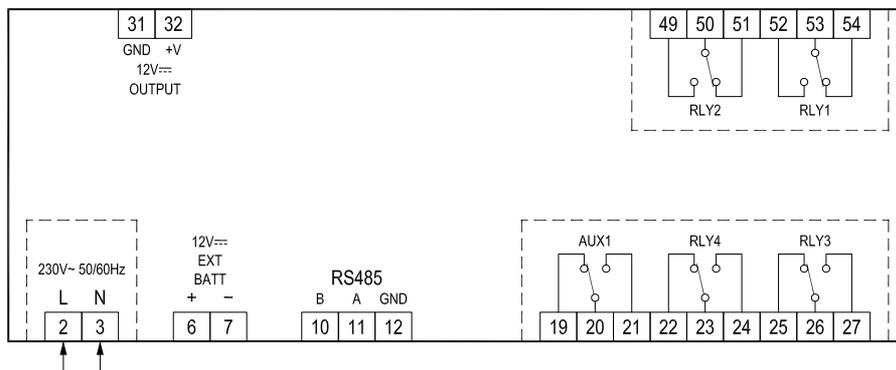
CONCENTRATOR MODULE WITH 8 INPUTS
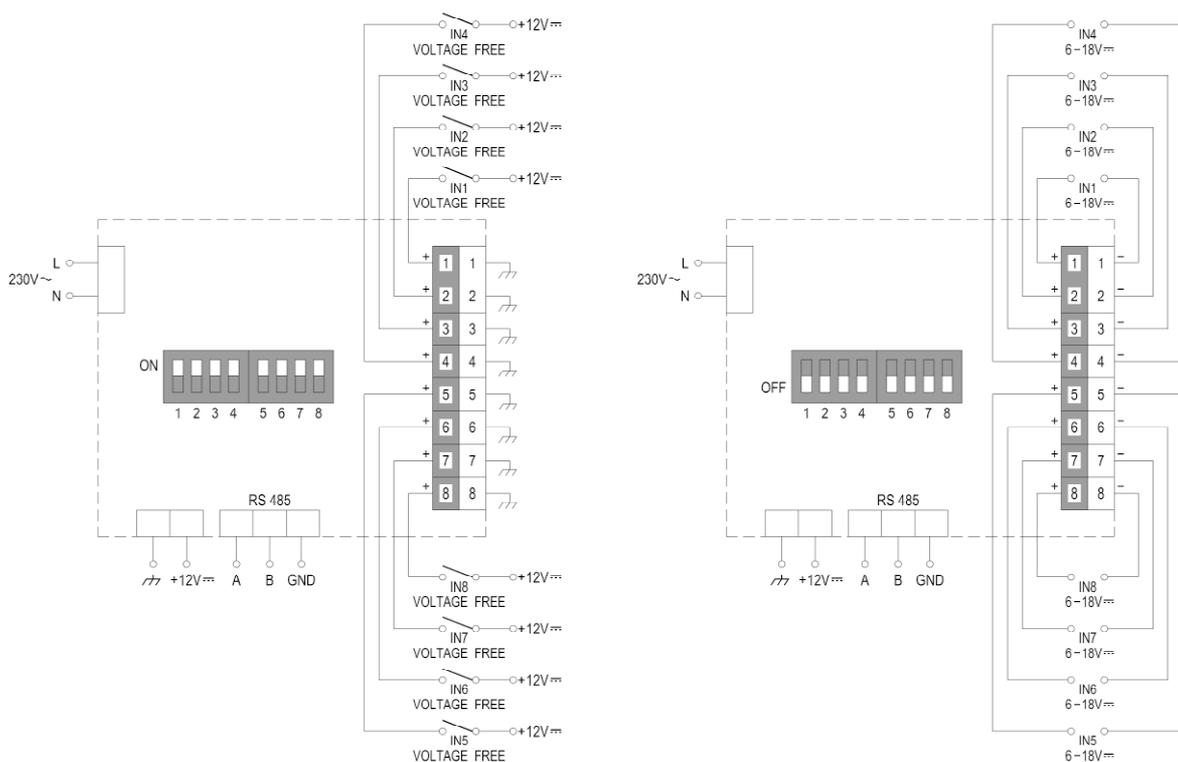## *FOR GAS DETECTION SYSTEM*
ACIM01

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.
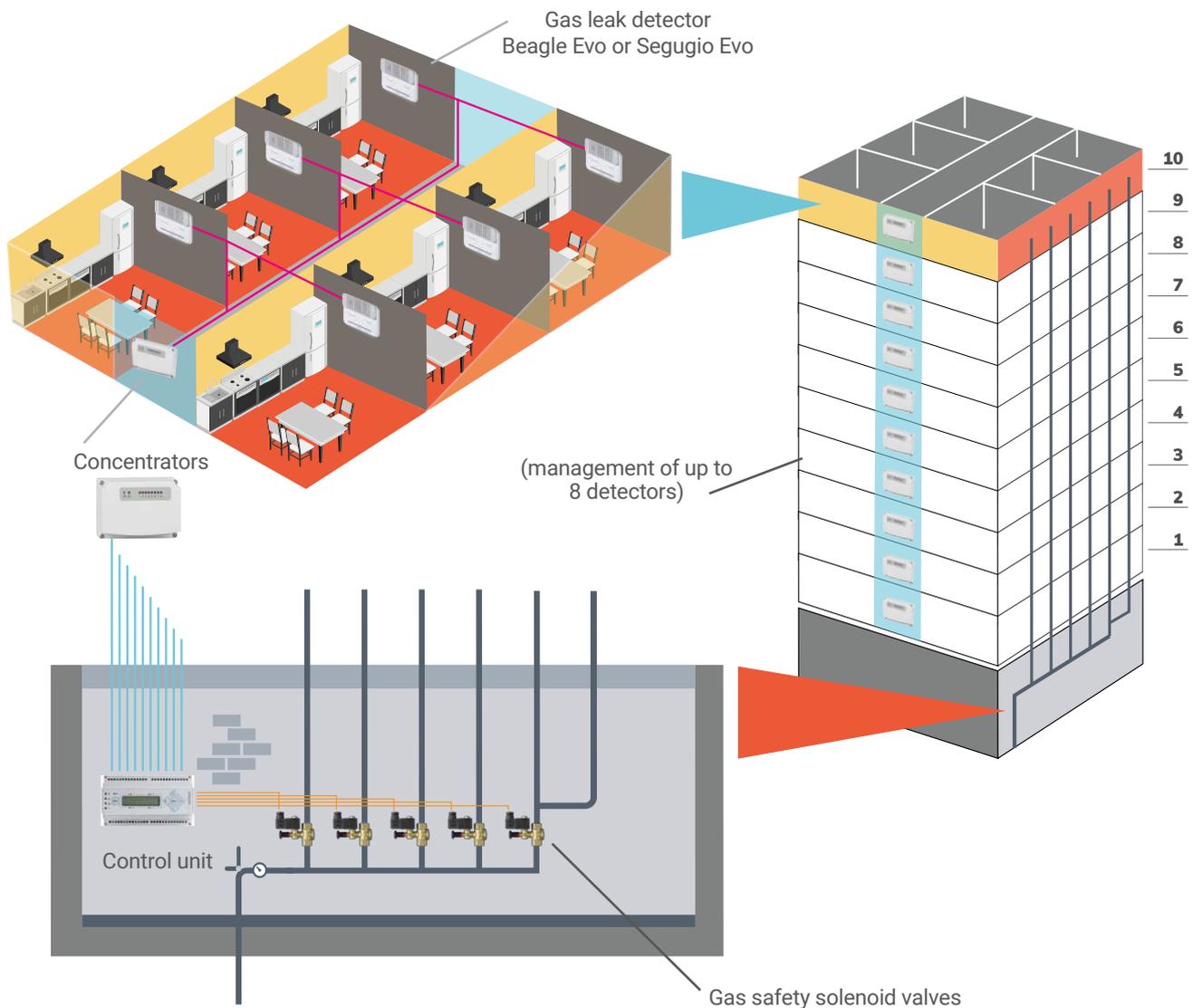Each concentrator, in turn, can be connected to the next one, thanks to Modbus® protocol communication (2 wires). This allows all concentrators to transmit alarms received from individual flats to a control unit.
Up to 32 concentrators can be connected to the control unit, for a total of 256 flats.
Alternatively, 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
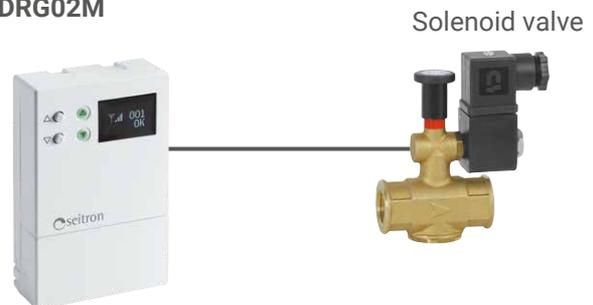**Working Diagram**

Segugio Evo Radio methane
DDMUX1R

Receiver for up to 12 detectors
DRG01M

Solenoid valve
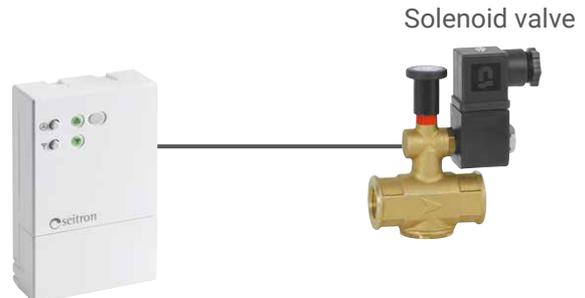
Segugio Evo Radio LPG
DDGUX1R

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

Design and Made in ITALY

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)

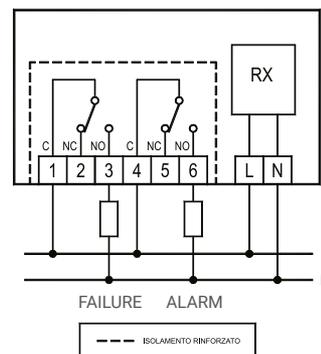*ACQG01*
Pre-calibrated sensor for LPG

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

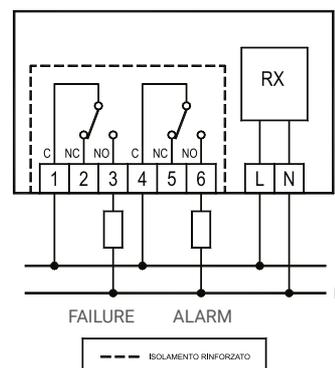|	
Power supply	230 V~ 50 Hz
Power consumption	11 VA
Output (relay)	2x6 A 250 V~
Transmission frequency	868.150 MHz
Antenna type	Internal stylus
	two-colour LED indicators Gas status/ transmission quality
IP Rating	IP3X
Dimensions (HxWxD)	125x78x30.5 mm

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 Wireless detector, to
which they transmit a signal in the event of an alarm.

Design and Made in ITALY

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

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 untitrated 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

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

ACQC01

Pre-calibrated replaceable 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 untitrated gas. Gas quantity sufficient for approximately 70 tests.

seitron