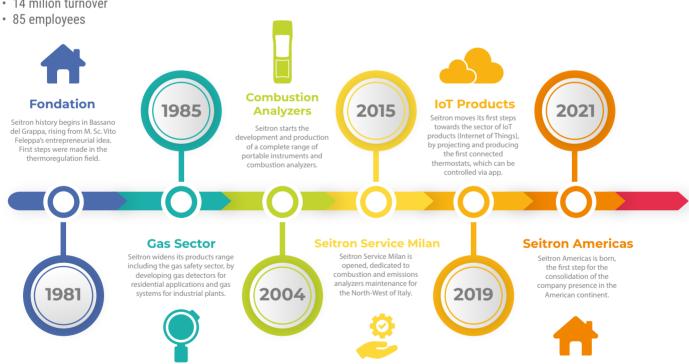




1981_ Seitron SpA, founded by M. Sc. Vito Feleppa, is active in the thermoregulation sector from the very beginning. Over the years the company has expanded its application range towards the safety gas sector (gas detectors for residential and industrial applications) and to the portable instrumentation sector. Seitron is a leading Italian & worldwide provider of combustion and emissions analyzers. The company had a remarkable evolution through the years, that requested huge changes. However the company purpose has always remained the same: to understand and fully satisfy all customers' needs, supporting them with accuracy and attention, thanks to its very cohesive team and a continuous improvement in quality, performances and qualified service. Seitron is well-known in Italy, but also active all around Europe, Asia, America and Oceania: about 50% of the production, thanks to the developed distribution network, is exported to more than 65 foreign Countries. To improve the presence in the market of North and South America, a new sales & service location has been started up in USA. The secret to Seitron business expansion and success lies in the continuous investment in Research and Development, with the purpose of offering unique & innovative products, not only with the highest performances but also environmentally friendly and competitive in the energy side. This is why Seitron manages and controls all steps of the production process, by directly handling all projects, production and sales and aftersales service. Finally, the design concept has an important role in ensuring a perfect combination between functionality and appearance.

2020 in numbers:





2015_Seitron Service Milan has the main task of supporting all North-West of Italy (Lombary, Liguria, Piemonte, Aosta Valley) with maintenance, calibration, and technical assistance of Seitron combustion and emissions analyzers. It is located in Segrate, nearby East Milan Ring Road. This investment proves the company intention to strengthen the Italian leadership in the supply and assistance of combustion analyzers thanks to a stronger direct presence in the North-West, therefore in the most important Italian area in terms of industry and commerce.

2021_ Seitron Americas Seitron Americas is lauched, the first step for the consolidation of the company presence in the American continent. This new location, located in the USA, represents a landmark for both North and South America as a support for sales and customer service.

It allows Seitron to cover a geographic area more efficiently as the Americas have traditionally a been an important export partner.

FAMILY PRODUCTS INDEX

COMBUSTION ANALYZERS	
Novo Novo Accessories Novo Gas Sensors CHEMIST 100 BE GREEN	pag. 8 pag. 14 pag. 16 pag. 18
CHEMIST 500 BE GREEN / CHEMIST 500	pag. 20
EMISSIONS INDUSTRIAL ANALYZERS	
CHEMIST 600 BE GREEN / CHEMIST 600	pag. 24
CHEMIST 900	pag. 26
CHEMIST 900 RACK	pag. 32
Accessories	pag. 36
Gas Sensors	pag. 44
PORTABLE INSTRUMENTS	
Micromanometers	pag. 48
Kit for pipes tightness test Portable hydrocarbon gases detector	pag. 48 pag. 49
Thermometer	pag. 49
Accessories	pag. 50
SMART HOME	
Wireless Programmable Thermostats Wi-Fi Programmable Thermostats	pag. 52
Wi-Fi Switch	pag. 55 pag. 57
PROGRAMMABLE THERMOSTAS	
Programmable Thermostats	pag. 60
Chrono- Thermo-Hygrostat	pag. 62
THERMOSTATS / WIRING BOXES	
Electronic room thermostats	pag. 64
Electro-mechanical room thermostats Wiring boxes	pag. 65 pag. 71
······································	pad. / I

WIRELESS SYSTEM Monodirectional Wireless Kits Monodirectional Wireless Systems Monodirectional BMS Sistem Bidirectional Wireless Systems	pag. 81 pag. 83 pag. 94 pag. 97
FAN COIL THERMOSTATS Thermostats for fan coils Power Interface	pag. 101 pag. 107
RESIDENTIAL GAS DETECTORS Residential gas leakage detectors Beagle Wired residential detection system Residential gas leakage detectors Segugio Wireless residential detection system Remote sensors Accessories	pag. 111 pag. 115 pag. 118 pag. 123 pag. 128 pag. 128
INDUSTRIAL GAS DETECTORS Product selection guide Transmitters Control units Industrial gas detectors Electrovalves	pag. 130 pag. 132 pag. 134 pag. 139 pag. 144
SOLAR HEATING CONTROLLERS Solar heating controllers Accessories Pumping station	pag. 147 pag. 150 pag. 151
CLIMATE CONTROLLERS Climate controllers Chronothermostat for radiant tubes / DIN rail mount Controls for fireplaces Digital chronothermostart for greenhouses Probes	pag. 154 pag. 156 pag. 157 pag. 158 pag. 159



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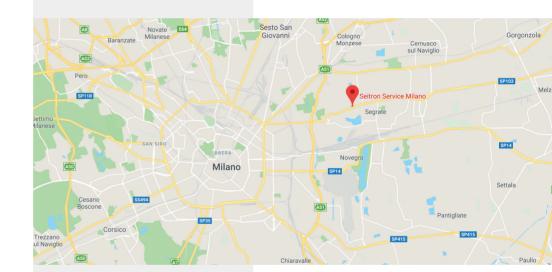




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COMBUSTION ANALYZERS INDUSTRIAL AND EMISSIONS ANALYZERS



CHEMIST RANGE for Combustion Analysis

The periodic boiler analysis, also known as boiler combustion analysis/smoke test, is key to ensure the safety of the boiler, improve its efficiency and reduce its emissions

The combustion analyzer meets the needs of any operator who wishes to perform combustion analyses in a simple and immediate way, while being always up to date with current standards such as UNI 10389-1.

Seitron combustion analyzers can perform several measures, such as:

- Gas systems tightness test (for new systems UNI 7129 and existing systems UNI 11137)
- Differential temperature measurement
- Gas pressure measurement
- Draft measurement according to UNI 10845 standard
- Calculation of the boiler heat losses and efficiency
- Detection of CO values in closed rooms

The portable Seitron instruments are designed to help maximize combustion efficiency, for easily setting up, install and adequately maintain any residential and / or commercial boiler and burner.

The series of the gas combustion analyzers Novo, CHEMIST 100 BE GREEN, CHEMIST 500 BE GREEN and CHEMIST 500 are dedicated to professionals for HVAC assistance, providing the necessary instruments to perform the job in a quick and correct way.

In fact, Seitron combustion analyzers are the ideal solution to monitor boiler and burner processes. All of our analyzers are designed and manufactured in Italy to provide high quality, compact design, strong build and easy to use instruments.

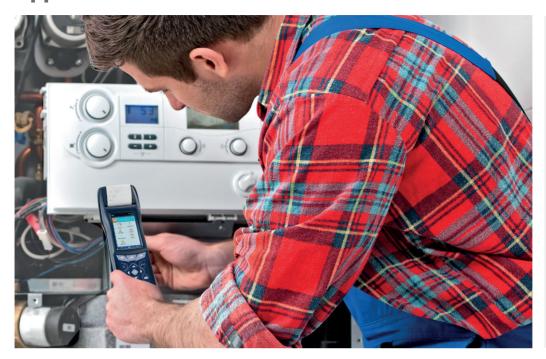






Catalog 2021 Rev.00

Applications





Combustion analysis of residential Boilers





Combustion analysis of Pellet Boiler





Novo

UP TO 4 SENSORS

PORTABLE COMBUSTION ANALYZER

7" Touch Display

15 Preprogrammed Fuels (Including Wood, Pellets, Biogas And Coal)

CO Protection Dilution Pump

Rechargeable Lithium Ion Batteries

Integrated water trap, with LED backlight and easy to clean

4 Pa Ventilation Measurement

Simultaneous measurement of boiler gas pressure

Draught Measurement

Tightness Test

4 YEARS WARRANTY ON **INSTRUMENT AND GAS SENSORS**



Seitron Smart Analysis









Seitron Smart Analysis Windows 10



EVERY KIT INCLUDES:

- Instrument
- Smoke probe with 300 mm interchangeable tip
- Integrated water trap
- Combustion air temperature Probe
- Gas valve pressure measuring tube
- Power Adapter and International Plug
- Hard plastic kit case
- Ouick Guide
- Calibration Certificate

MAIN FEATURES

- Precalibrated Gas Sensors
- 3 analysis in sequence with automatic calculation of the average and printing of the result
- Automatic autozero (with smoke sampling probe inserted in the chimney)
- Autozero pressure sensor, for a more stable and reliable draft measurement
- Self-diagnosis with verification of the functions and status of the sensors
- · User selectable language
- · Automatic calculation of the pipe volume
- Integrated magnets
- 100 MB for complete analyzes memory
- Dimensions: Analyzer 270Ax93Lx68Pmm, weight 0,9 Kg Kit 125Ax465Lx335Pmm, weight 5 Kg

MEASURED VALUES

- Flue gas temperature and Temperature Differential
- Outdoor air temperature and room temperature
- · Draft and Pressure Differential
- Ambient CO

CALCULATED VALUES

- · Boiler efficiency, including condensing
- · Stack losses and excess air
- · CO
- · Flow velocity with Pitot tube
- Burning power

FEATURES	Novo 2	Novo 3	Novo 4S	Novo 4N
02 Sensor	√	✓	✓	✓
CO/H2 Sensor	✓	1	1	✓
NO Sensor	-	✓	✓	✓
NOx Calcolated	-	✓	✓	✓
NO2 Sensor	-	-	-	✓
NOx Measured (NO+NO2)	-	-	-	✓
SO2 Sensor	-	-	✓	-
Kit with integrated Printer	Novo 2P	Novo 3P	Novo 4P S	Novo 4P N
Kit with Bluetooth Printer (Thermal Paper Roll included)	Novo 2 ST	Novo 3 ST	-	-

Novo X

Modular Gas Analyzer Kit up to 4 sensori (O_2 + up to 3 sensors of your choice)

NEW UPDATED FEATURES



7" touch screen (85x155mm)

The new device was redesigned to give the user an improved & easy-to-use experience. The analyzer includes a large 7" touchscreen that grants maximum visibility of all the information along with quick & smooth browsing experience.

Integrated water trap

The water trap design has been completely redesigned to guarantee maximum performance & easy maintenance. A large inspection window with backlit LED allows user to easily & quickly check the water level & filter at any time.





New Updated Analyzer Housing

The guidelines for the development of the Novo have been reliability and ease of use, which also inspired the new cover. With a rubber finish which confers a steady and simple grip, as well as a sturdy and modern design, the new housing offers a pleasant and functional use experience.



Simple ONE Probe Connection

One source of major improvement to our analyzer is the new, updated flue gas sampling probe connection. Instead of three (3) separate connections for temperature, draft and flue gases, it has been redesigned to just one (1) simple connection. The new connection allows user to attach the probe without looking with an easy plug-n-play design.





11

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When performing a combustion analysis of the various combustion parameters, often you will also need a pressure manometer at the same time to check and/or adjust the gas pressures of the equipment. The newly designed Novo allows you now measure combustion parameters and Gas pressures at the SAME TIME, drastically reducing the service time and limiting the needs for separate devices.





Intuitive interface

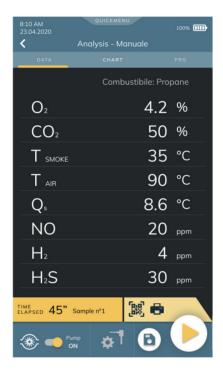
In addition to the elegant and ergonomic design, the Novo features a simple, intuitive & efficient touchscreen interface.

The New, Easy-to-use user interface allows the user to quickly create customizable combustion reports, set and/or change the parameters of the device, carry out multiple optional measurements, and so much more. It is also possible to customize the home screen with the user's profile picture and information.

The combustion report can be printed out with our signature BUILT-IN integrated printer or with an optional wireless Bluetooth® printer.

The new generation of LONG-LIFE gas sensors installed in the Novo, allows for reliable & accurate measurements with longer sensor life than the competition.











Seitron Smart Analysis







13

SEITRON SMART ANALYSIS APP

- Data logging
- · Report creation
- QR code or real-time App
- Sending of reports by e-mail (csv, pdf, xml)

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COD.	РНОТО	DESCRIPTION
AJPB01		Li-lon Rechargeable Battery; 3,7Vdc - 6 A/h
AJKA02		Power supply with US plug, USB type C and 1.8 m cable
AJCR01	Seitron	Hard plastic Case
AJTA01		Water trap with flue gas filter
AACFA01		Dust filters for AACTA03 (pack of 5 pieces) dimensions 12x32 mm
AARC10		Long Life thermal paper roll 57x35
AAST04	batterie incluse	Thermal printer with Bluetooth connection

COD.	РНОТО	DESCRIPTION
AJTB01		Gas pressure tube. Length 1 m
AJSJ01		Smoke sampling probe handle with 1.8 m cable
AJPT01		Interchangeable 180 mm tip for AJSJ01 handle, maximum temperature 400 °C
AJPT02		Interchangeable 300 mm tip for AJSJ01 handle, maximum temperature 600 °C
AJPT03	D	Interchangeable 750 mm tip for AJSJ01 handle, maximum temperature 800 °C
AJPT04		Interchangeable 1000 mm tip for AJSJ01 handle, maximum temperature 1200 °C
AJEX01		3 m extension cable for smoke sampling probes with handle AJSJ01

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Novo - SENSORI GAS

GAS	COD.	RANGE	SENSOR TYPE
02 Long Life	Novo O2 LL	025% v/v	Electochemical Sensor
00 (110	N 00//10	0500.0 ppm	Electochemical Sensor
CO / H2	Novo CO/H2	5018000 ppm	Electochemical Sensor
CO Mid	Novo CO Mid	020000 ppm	Electochemical Sensor
CO High	Novo CO High	0100000 ppm	Electochemical Sensor
No	Nava NO	0500.0 ppm	Electochemical Sensor
NO	Novo NO	5015000 ppm	Electochemical Sensor
NO2	Novo NO2	0100.0 ppm	Electochemical Sensor
N02	NOVO NOZ	1011000 ppm	Electochemical Sensor
S02	Nove CO2	0500.0 ppm	Electochemical Sensor
502	Novo SO2	5015000 ppm	Electochemical Sensor
H2	Novo H2	02000 ppm	Electochemical Sensor
H2 High	Novo H2	040000 ppm	Electochemical Sensor
H2S	Novo H2S	05000 ppm	Electochemical Sensor
H2S Low	Novo H2S low	0500.0 ppm	Electochemical Sensor
NH3 Low	Novo NH3	0500.0 ppm	Electochemical Sensor
СхНу	Novo CxHy	05% vol CH4	Pellistore Sensor
CH4 NIDR	Novo CH4 NDIR	0100% vol	NDIR Sensor
CO2 NDIR	Novo CO2 NDIR	050% vol	NDIR Sensor

16 Catalog 2021 Rev.00 www.seitron.com

RESOLUTION	ACCURACY	
0.1% vol	±0.2% vol	
0.1 ppm	±2 ppm ±5% v.m.	0 40 ppm 40.1 500.0 ppm
1 ppm	±10% v.m.	501 8000 ppm
1 ppm	±10 ppm ±5% v.m. ±10% v.m.	0 200 ppm 201 4000 ppm 4001 20000 ppm
1 ppm	±100 ppm ±10% v.m.	0 1000 ppm 1001 100000 ppm
0.1 ppm	±2 ppm ±5% v.m.	0 40 ppm 40.1 500.1 ppm
1 ppm	±10% v.m.	501 5000 ppm
0.1 ppm	±2 ppm ±5% v.m.	0 40 ppm 40.1 100.1 ppm
1 ppm	±10% v.m.	101 1000 ppm
0.1 ppm	±2 ppm ±5% v.m.	0 40 ppm 40.1 500.1 ppm
1 ppm	±10% v.m.	501 5000 ppm
1 ppm	± 10 ppm ± 10% v.m.	0 ppm - 100 ppm 101 ppm - 2000 ppm
10 ppm	± 100 ppm ± 10% v.m.	0 ppm - 1000 ppm 1001 ppm - 40000 ppm
1 ppm	± 10 ppm ± 10% v.m.	0 ppm - 100 ppm 101 ppm - 5000 ppm
0.1 ppm	±5 ppm ±5% v.m.	0 100.0 ppm 101 500.0 ppm
0.1 ppm	±10 ppm ±10% v.m.	0 100.0 ppm 100.1 500.0 ppm
0.01% vol	±0.25% abs	
0.01% vol	±0.3 vol ±10% v.m.	0 10% vol 10.01% 100.00% vol
0.01% vol	±1 vol ±2% fs	0 10.00% vol 10.01% 50.00% vol

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17





Bluetooth Printer AAST04

CHEMIST 100 BE GREEN WARRANTY: 2 YEARS ON INSTRUMENT AND GAS SENSORS



Seitron Smart Analysis







CHEMIST 100 BE GREEN

UP TO 3 SENSORS

PORTABLE COMBUSTION ANALYZER

B/W Backlit LCD (50 X 50 Mm)

15 Preprogrammed Fuels (Including Wood, Pellets, Biogas And Coal)

Rechargeable Lithium Ion Batteries

IR Communication

Qr Code To Acquire Analysis With Smartphone

Draught Measurement (Optional)

Tightness Test (Optional)

EVERY KIT INCLUDES:

- Instrument
- 300 mm Smoke Probe with 2 m cable
- Water trap with dust filter, stainless steel fittings and silicon hose
- Combustion air temperature Probe
- Preassure Measures Kit
- Power Adapter and International Plug
- Hard plastic kit case
- Ouick Guide
- Calibration Certificate

MAIN FEATURES

- · Precalibrated gas sensors
- · Self diagnostic function with sensors status
- · QR code generation
- Automatic recognition of condensing boiler
- Internal memory for 5 analyses
- Up to 10 hrs. autonomy of continuous operation
- Dimensions: Analyzer 70Ax60Lx170Pmm, weight 0,35 Kg Kit 122Ax406Lx290Pmm, weight 2,35 Kg

MEASURED VALUE

- Flue gas temperature and Temperature Differential
- Outdoor air temperature and room temperature
- Gage and Pressure Differential
- Ambient CO

CALCULATED VALUES

- · Boiler efficiency, including condensing
- Stack losses

FEATURES	101	101 S	102	102 S	103	103 S
02 Sensor	/	√	1	1	/	1
CO/H2 Sensor	1	1	1	1	1	/
NO Sensor	-	-	-	-	1	1
NOx Calcolated	-	-	-	-	1	/
Expandable to 3 sensors	-	-	1	1	1	1
Draft measurement with internal sensor (optional)	-	-	1	1	1	1
Gas pipe tightness (optional)	-	-	1	1	1	1
Gas pipes volume automatic calculation (optional)	-	-	1	1	1	1
Kit with Bluetooth Printer	-	√	-	1	-	1
Thermal Paper Roll	-	1	-	1	-	1

www.seitron.com Catalog 2021 Rev.00 19



CHEMIST 500 BE GREEN



CHEMIST 500 Built-in Printer

CHEMIST 500 BE GREEN / 500

UP TO 4 SENSORS

PORTABLE COMBUSTION ANALYZER

Blue Backlit Lcd (55 X 95 Mm)

15 Preprogrammed Fuels (Including Wood, Pellets, Biogas And Coal)

CO Protection Dilution Pump

Rechargeable Lithium Ion Batteries

Qr Code To Acquire Analysis With Smartphone

4 Pa Ventilation Measurement

Draught Measurement

Tightness Test

4 YEARS WARRANTY ON **INSTRUMENT AND GAS SENSORS**



Seitron Smart Analysis









Seitron Smart Analysis Windows 10



EVERY KIT INCLUDES:

- Instrument
- 300 mm Smoke Probe with 2 m cable
- Water trap with dust filter, stainless steel fittings and silicon hose
- Combustion air temperature Probe
- Preassure Measures Kit
- Power Adapter and International Plug
- Hard plastic kit case
- Ouick Guide
- Calibration Certificate

MAIN FEATURES

- Precalibrated gas sensors
- 3 consecutive analysis with average calculation
- Automatic autozero with sampling probe in the stack
- Self diagnostic function with sensors status
- 10 different preprogrammed languages
- Automatic calculation of gas pipes volume
- · Hard plastic body with magnets
- Internal memory for 1000 analysis
- · Dimensions:

Analyzer 270Ax93Lx68Pmm, weight 0,8 Kg Kit 130Ax510Lx430Pmm, weight 3,4 Kg

MEASURED VALUES

- Flue gas temperature and Temperature Differential
- · Outdoor air temperature and room temperature
- Draft and Pressure Differential
- Ambient CO

CALCULATED VALUES

- · Boiler efficiency, including condensing
- · Stack losses and excess air
- · CO
- · Flow velocity with Pitot tube
- Burning power

FEATURES	502 / 502 BG	502 B / 502 B BG	502 BS BG	502 C / 502 C BG	503 / 503 BG	503 B / 503 B BG	503 BS BG	504 N / 504 N BG	504 S / 504 S BG
O2 Sensor	1	1	1	1	1	1	1	1	1
CO/H2 (0 8000 ppm) Sensor	1	1	1	0-20000 ppm	1	1	1	1	1
NO Sensor	-	-	-	-	1	1	1	1	1
NOx Calcolated	-	-	-	-	1	1	1	-	1
NOx Measured (NO+NO2)	-	-	-	-	-	-	-	1	-
NO2 Sensor	-	-	-	-	-	-	-	1	-
SO2 Sensor	-	-	-	-	-	-	-	-	1
CO Dilution Pump (up to 100.000 ppm)	1	-	-	1	1	-	-	1	1
Kit with Bluetooth Printer (only for BE GREEN)			1				1		
Thermal Paper Roll (only for Chemsit 500)	1	1	1	1	/	1	/	1	1

CHEMIST 500 BE GREEN X / 500 X

Modular Gas Analyzer Kit up to 4 sensori (O_2 + up to 3 sensors of your choice)

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21

CHEMIST SERIES for Industrial Emissions Analysis

Our team is committed to provide the most suitable & custom version of any instrument to match almost any application & need. Standards regulating exhaust gas emissions in industrial systems are also becoming more and more strict, being of great relevance for both climate and health protection

In high intensity and high resources consuming processes, great quantities of toxic gases are produced, such as carbon monoxide (CO), carbon dioxide (CO2), nitrogen oxides (NOX) or sulfur dioxide (SO2).

Often performed in extreme environments, featuring high levels of humidity, high temperatures and presence of particulate matter coming from combustion gases, the emissions measurements are needed in order to verify the measure and the quality of the combustion. The analyses are typically performed by special laboratories, maintenance technicians of industrial plants or by the industries themselves.

In order to answer these needs, Seitron has developed a line of industrial emissions analyzers, either portable for periodical measurements or fixed for continuous analysis.

The CHEMIST 600 and CHEMIST 600 BE GREEN are compact, hand-held instruments, which can measure up to 6 different gases, which can be customized based on the type of application.

The analyzer CHEMIST 900 offers the maximum flexibility as it incorporates both NDIR and electro-chemical technologies, which allow for the measurement of up to 12 different gases, all in a convenient portable format.

The analyzer CHEMIST 900 RACK is the instrument dedicated to the continuous measurement of industrial emissions. Thanks to its rack mounting, it is ideal for research and development environments as well as process monitoring.





Applications



Chemical Industries



Laboratories



Biogas Factories



Industrial Motors



Industrial Burners



Waste-to-energy Plants



Pellet Boilers



Industrial Cement Furnaces

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CHEMIST 600 Built-in Printer

CHEMIST 600 BE GREEN / 600

UP TO 6 SENSORS

INDUSTRIAL EMISSIONS ANALYZER

Blue Backlit Lcd (55 X 95 Mm)

15 Preprogrammed Fuels (Including Wood, Pellets, Biogas And Coal)

CO Protection Dilution Pump

Rechargeable Lithium Ion Batteries

Qr Code To Acquire Analysis With Smartphone

External Water Trap with Dust Filter

4 Pa Ventilation Measurement

Draught Measurement

Tightness Test

1 YEAR WARRANTY ON **INSTRUMENT AND GAS SENSORS**



Seitron Smart Analysis









Seitron Smart Analysis Windows 10



EVERY KIT INCLUDES:

- Instrument
- 300 mm Smoke Probe with 3 m cable
- Water trap with dust filter, stainless steel fittings and silicon hose
- Combustion air temperature Probe
- Preassure Measures Kit
- Power Adapter and International Plug
- Hard plastic kit case
- Ouick Guide
- Calibration Certificate

MAIN FEATURES

- Precalibrated gas sensors
- 3 consecutive analysis with average calculation
- Automatic autozero with sampling probe in the stack
- · Self diagnostic function with sensors status
- 10 different preprogrammed languages
- · Automatic calculation of gas pipes volume
- · Hard plastic body with magnets
- · Internal memory for 1000 analysis
- Dimensions: Analyzer 270Ax93Lx68Pmm, weight 0,8 Kg Kit 130Ax510Lx430Pmm, weight 3,4 Kg

MEASURED VALUES

- Flue gas temperature and Temperature Differential
- Outdoor air temperature and room temperature
- · Draft and Pressure Differential
- Ambient CO

CALCULATED VALUES

- Boiler efficiency, including condensing
- · Stack losses and excess air
- · CO
- · Flow velocity with Pitot tube
- Burning power

FEATURES	605 / 605 BG	606 HC / 606 HC BG	606 CO2 / 606 CO2 BG
up to 6 senosrs	✓	6 sensors	6 sensors
02 Sensor	✓	✓	✓
CO/H2 (0 8000 ppm) Sensor	✓	✓	✓
NO Sensor	1	1	✓
NO2 Sensor	1	1	✓
SO2 Sensor	1	1	1
CxHy Measured	-	1	-
C02 Sensor	-	-	1
NOx Measured (NO+NO2)	1	1	1

CHEMIST 600 X BE GREEN / X 600

Modular Gas Analyzer Kit up to 6 sensori of your choice

AACE01 - Case with active external cooler

Possibility to equip the analyzer case with the active external cooler.

We suggest to use it in environments with high humidity to measure NO2, SO2, NH3 and H2S.

- Power supply 230V
- Power supply by external power-bank 12V
- For probes AASF32, AASF35, AASF36, AASF37



CHEMIST 900 1-12 SENSORS INDUSTRIAL EMISSIONS ANALYZER

Chemist 900 is an industrial emissions and combustion analyzer, mainly used for industrial burners, cogeneration groups, gas turbines, industrial ovens and processes, laboratories and generally everywhere the need is to measure and register for long periods the gas emissions, in compliance with existing regulations.



PRICE ON REQUEST CHEMIST 900 WARRANTY: 1 YEAR ON INSTRUMENT, GAS **SENSOR AND PRINTER**



Seitron Smart Analysis







Seitron Smart Analysis Windows 10



THE INSTRUMENT CONSISTS OF:

- · Gas sampling system
- Expansion water trap
- Combustion Air temperature with 200mm tip
- · Kit for differential temperature measurement
- 1000mm hose for remote condensate drainage
- · USB cable
- Power supply cable
- UE/Schuko/USA plug
- Configuration software for laptop on usb pendrive
- · Instructions manual
- · Calibration certificate

Equipped for:

- · Water trap system/cyclone cooling with Peltier sensor
- · Installation with 1 to 9 sensors for "flex" electrochemical gases
- NDIR bench to measure up to 3 gases
- · Gas sampling probe (with or without heated head)

MAIN FUNCTIONS

- Heated Sampling Probes (up to 6 m)
- · Efficiency calculations
- · Condesing efficiency calculation
- PCI efficiency calculation
- · PCS efficiency calculation
- 15 default fuels
- 32 settable fuels
- CO sensor protected by an automatic dilution system

MEASUREMENT

- NDIR bench (measuring up to 3 gases)
- Electrochemical gas measurement sensors (up to 9)
- · Local or remote combustion air measurement
- Sensors temperature measurement through thermal compensation
- Measurement of the differential pressure
- · Air speed for air or flue gas leaving the stack with the use of Pitot tube
- · Suction pump flow rate measurement

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27

CHEMIST 900

Central Unit Version	Flex gas sensors (max 9)	NDIR bench (CO2/CO/ CxHy)	Anti-condensation cyclone Cooler with Peltier cell	Anti-condensation trap
Chemist 901	✓	-	-	✓
Chemist 901 IR3	1	✓	-	✓
Chemist 902	1	-	✓	-
Chemist 902 IR3	1	✓	√	-

GAS SAMPLING SYSTEMS

- Passive Type: utilizes sensors with different tip lengths and fittings, made of different materials, with flexible tube connection to the central unit in various lengths.
- **Active Type:** utilizes gas sampling sensor with heated head and flexible tube. This characteristic prevents water vapour condensation to reach the central unit, since it affects measurements of gases easily soluble in water, such as NO2 and SO2.

The active sensor maintains the gas sample at a higher temperature than the dew point and keeps it stable as far as the cooling system: this is a fast, cyclone type with Peltier cell. The water vapour condenses so quickly that the NO2 and SO2 gases do not have time to dissolve in water.



Passive gas sampling probe



Active gas sampling probe with heated head and hose



750 mm gas sampling probe for industrial motors

CHEMIST 900 - TECHNICAL FEATURES

Power supply: Battery charge: Charging time: Instrument battery life:	or Li-ion battery pack with internal protection circuit, rechargeable. With mains cable with IEC C14 socket. 8 hours from 0% to 90%. 10 hours of continuous operation (except printer and Peltier cell group). 2 hours with Cooler working.	
Display:	Backlit TFT graphical colour display. 4.3" 480×272 pixel.	
Connectivity Communication port: Bluetooth:	TYPE B USB connector. Communication distance: <100 metres (open field).	
Autozero: Dilution:	Automatic autozero cycle with gas sampling probe in stack. CO sensor measurement range expansion system up to 100,000ppm (10.00%). Starting point programmable by the user.	
Gas measurement sensors: Infrared bench: Fuel type:	Up to 9, configurable among electrochemical, NDIR (single cell) and Pellistor. 3 gases NDIR bench: CO, CO2, CxHy. 12 preprogrammed and 16 programmable by the user.	
Self diagnostics: Temperature measurement: Ambient temperature	Check all functions and internal sensors with status indication. TcK double input with mini connector (ASTM E 1684-96) for Temperature Differential measurement (supply and return).	
measurement:	Via internal sensor or via T2 TcK input with remote sensor.	
Printer: Printer power supply: Printer battery life:	Integrated, thermal, with easy paper loading and paper level sensor. Analyzer batteries. With fully charged batteries up to 40 analysis reports.	
Internal Data Memory: User data: Printer header:	16.000 complete data analysis, time and customer's name can be stored. 8 programmable user names. 6 lines × 24 characters, user customisable.	
In-line filter:	With replaceable cartridge, 99% efficiency with 20µm particles.	
Vacuum pump: Capacity pump:	2.0 l/min flow rate in the stack up to 300hPa head. Internal sensor measuring pump flow rate.	
Cooler sample treatment Drying system: Type: Set point temperature cooler: Max. temp. deviation from set point: Condensate emptying pump: Peristaltic duty cycle pump: Warm-up time: Operating temperature:	Rapid water condensation using cyclone system Peltier cell +5°C +10°C from set point Peristaltic hose 38 ml/min 30s On 30s Off ~ 15 20 minutes -5°C +45°C	
Anti-condensation trap Type: Condensate emptying pump: Operating temperature:	Integrated Peristaltic hose 38 ml/min -5°C +45°	

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Carbon black: Tightness test (where required): Condensing boiler efficiency: Ambient gases: Draught test:	Using a manual external pump; the smoke index can be uploaded and printed. Tube gas tightness test with separate receipt printing, using AAKT05 accessory, subject to European standards UNI 7129 (new installations) and UNI 11137: 2012 (existing installations), with automatic calculation of the tube volume. Automatic assessment of the condensing boiler, with calculation and printing of the boiler efficiency. Separate measurement and printing of the ambient CO concentration. Draught test execution using external probe (AACDP02)
Working temperature: Storage temperature: Humidity limit: Protection level: External dimensions: Weight:	-5°C +45°C -20°C +50°C 20% 80% RH IP21 50 x 36 x 20 cm (W x H x D). 50 x 46 x 13 cm (W x H x D) with intermediate drawer for heated head and sensor transportation. ~ 12 kg (Typical configuration: nine sensors - Cooler - IR bench - smoke sampling sensor - power cable - USB cable - carrying strap - two paper rolls - USB stick - condensate drain tube - remote air intake tube - combustive air sensor). ~ 13 kg (Typical configuration with additional accessories such as: 3m extension for smoke sensor - auxiliary air sensor - 300mm Pitot Tube - draught gauge). ~ 16,7 kg (Typical configuration with additional accessories and intermediate drawer containing: heated head sensor with 300mm tip and heated tube).
Compliant with European standards EN 50379-1 and EN 50379-2 for the following measurements:	 O2 C0 N0 S02 Temperature (flue gas) Temperature (combustion air) Pressure (draught) Pressure (differential)





NDIR benches available for simultaneous measurement up to 3 gases:

Gas	Measure type	Range	Resolution	Response Time (t 90)
CO	NDIR	0 2500 ppm 2500 100000 ppm (10% Vol) 100000 500000 ppm (50% Vol)	1 ppm 10 ppm 100 ppm	< 10 sec
C02	NDIR	0 50 % Vol	0,1 % Vol	< 10 sec
CH4 *	NDIR	0 100 % Vol	1 ppm	< 10 sec
HC (C3H8)*	NDIR	0 30000 ppm	1 ppm	< 10 sec

(*): The NDIR bench always measures the 3 gases CO, CO2, HC (ref. to methane CH4) or HC (ref. to propane C3H8)





www.seitron.com Catalog 2021 Rev.00

31

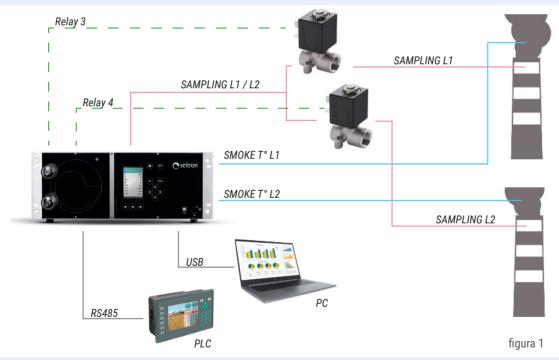
CHEMIST 900 RACK 1-6 SENSORS

INDUSTRIAL EMISSIONS ANALYZER

The CHEMIST 900 RACK is an onsite continious emissions monitor (CEM). This device can measure emissions generated by industrial combustion or transformation processes and it analyzes different gases thanks to the NDIR and electrochemical technology.

Combustions and emissions parameters are displayed in real time on a TFT color display, on a PC Software or on a PLC that receives data via RS485 serial connection. The sensors are thermally compensated in order to avoid measurement errors that could be caused by temporary thermal variation. The distinctive feature of the Chemist 900 Rack is its rack structure that allows to use it into standard 19" cabinet or even in laboratories because it comes standard equipped with 4 rubber bumpers. The Chemist 900 Rack is designed to perform long-lasting analyses periods thanks to an automatic commutation system that allows to reset both the gas sensors and the pressure sensor used for draft measures or differential pressure measures. This, together with a Pitot tube, allows measure the smoke speed inside the evacuation duct. A relevant feature of the Chemist 900 Rack is a cooling system that causes a quick condensation of the moisture contained in the gas thus allowing the gas to reach the sensors without dissolving in water. The gases that benefit from this system are NO2, SO2, NH3, H2S. Condensation water is collected into a water tank and emptied on a timed basis by a membrane pump. The gas sample and the air used for sensors cleaning are filtered by two interchangeable dust filters. The Chemist 900 rack is equipped with a system that allows taking in gases from two different points (e.g. two stacks) and carry them into a single smoke suction line (image 1). All parameters and collected data are sent via serial communication port type RS485 and USB communication port in order to connect to the PC for the analysis reading. The user can archive and analyze the collected data with the dedicated software provided with the instrument, Chemist Smart Analysis. Files are saved with .csv extension.

SAMPLING LINE SELECTION SYSTEM



THE INSTRUMENT CONSISTS OF:

- Gas sampling system
- USB cable,
- · Power supply cable
- UE/Schuko/USA plug
- Calibration certificate
- Instructions manual

Predisposto per:

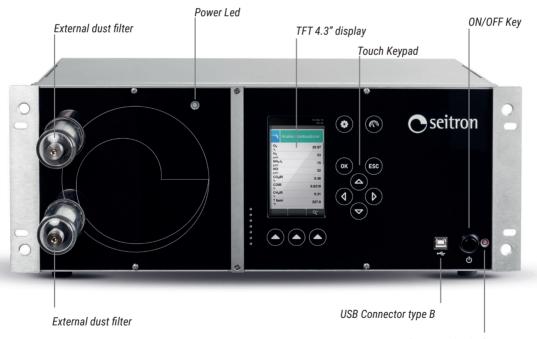
- Water trap system/cyclone cooling with Peltier sensor
- Installation with 1 to 3 sensors for "flex" electrochemical gases
- NDIR bench to measure up to 3 gases
- Gas sampling probe (with or without heated head)

MAIN FUNCTIONS

- Serial communication port type RS485 according to protocol MODBUS® RTU USB Communication
- · Possibility of communication on ethernet line with external module
- · 4 .. 20 mA isolated output
- · 4 alarm relays outputs
- · Heated Sampling Probes
- · Efficiency calculations
- · Condesing efficiency calculation
- PCI efficiency calculation
- · PCS efficiency calculation
- 15 default fuels
- 32 settable fuels
- · CO sensor protected by an automatic dilution system

MEASUREMENT

- NDIR bench (measuring up to 3 gases)
- Electrochemical gas measurement sensors (up to 3)
- Smoke temperature measurement (2 temperatures)
- · Local or remote combustion air measurement
- Sensors temperature measurement through thermal compensation
- · Draft in the stack with automatic autozero
- · Measurement of the differential pressure
- · Air speed for air or flue gas leaving the stack with the use of Pitot tube
- · Suction pump flow rate measurement



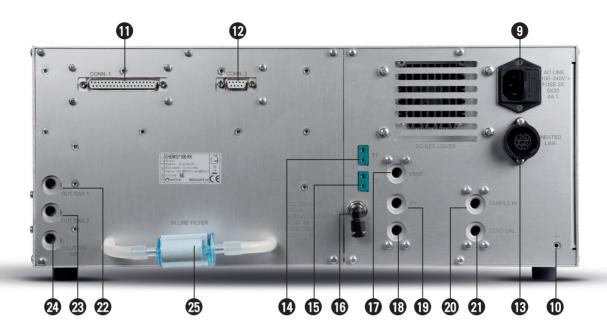
Programming Led

NDIR benches available for simultaneous measurement up to 3 gases:

Gas	Measure type	Range	Resolution	Response Time (t 90)
CO	NDIR	0 2500 ppm 2500 100000 ppm (10% Vol) 100000 500000 ppm (50% Vol)	1 ppm 10 ppm 100 ppm	< 10 sec
CO2	NDIR	0 50 % Vol	0,1 % Vol	< 10 sec
CH4 *	NDIR	0 100 % Vol	1 ppm	< 10 sec
HC (C3H8)*	NDIR	0 30000 ppm	1 ppm	< 10 sec

(*): The NDIR bench always measures the 3 gases CO, CO2, HC (ref. to methane CH4) or HC (ref. to propane C3H8)

BACK COVER DESCRIPTION



9. Power Supply 'AC LINE - 90 .. 264V-'

Plug IEC C14 to connect the power cable to the instrument, provided with the instrument itself. On the plug there is a fuse-holder hidden under a flap, containing 2 fuses 5x20 4A T.

10. Connection for grounding of the instrument.

11. 37 poles connector (4 outputs 4..20mA and 4 relay outputs) Makes available for the user 4 4..20mA outputs and 4 relay outputs with potential free change over.

12. Serial connector RS485

Serial communication port type RS485 according to MODBUS® RTU protocol.

13. 'HEATED LINE' Connector

Plug for the heated line connection.

14. 'T1' Connector

Tc-K connector to plug in the male connector Tc-K of the probe for the measure of the smoke temperature.

15. 'T2' Connector

Tc-K connector to plug in the male connector Tc-K of the combustion air probe.

16. Condensation water drain

17. 'VENT' Connector - Female connector M5

Air vent used by the pressure sensor to perform the self-zeroing. If the instrument is installed on a rack or in pressurized environments, the air vent must be moved remotely at room temperature.

18. Pneumatic connector 'P-' - female connection 1/8 GAS RSPP

Negative input (P-) to be used for the draft measurement.

19. Pneumatic connector 'P+' - female connection 1/8 GAS BSPP.

Positive input (P+) to be used for the measurement of the pressure in general.

20. Pneumatic connector 'SAMPLE IN' - female connection 1/8 GAS BSPP.

Input for the connection of the gas sampling probe.

21. Pneumatic connector 'ZERO CAL' - female connection 1/8 GAS BSPP.

Input for the line connection to the remote air vent in order to perform the self-zeroing. If the instrument is placed in a closed and polluted environment, it is possible to move the instrument air vent in a room with clean air using the 'ZERO CAL' connector

- **22. Connector 'OUT GAS 1' female connection 1/8 GAS BSPP.** Analyzed gas remote output.
- **23. Connector 'OUT GAS 2' female connection 1/8 GAS BSPP.** Analyzed gas remote output.
- 24. Connector 'DILUTION AIR' female connection 1/8 GAS BSPP.

Remote air vent for CO dilution.

25. Dust filter for NDIR (infrared) bench protection

34 Catalog 2021 Rev.00 www.seitron.com

Technical Features

Power supply	90 264 Vac
Power absorption at 230 V	100 VA
Display	TFT 4.3", 272 x 480 pixels graphic color with backlight
PC Communication port	USB Connector type A
Connectivity	USB-RS485 MODBUS RTU
Autozero	Automatic autozero cycle with the probe inserted in the chimney
Suction pump	2,2 I/min head at the stack up to 300 hPa.
Line Filters	Replaceable cartridge, 95% efficiency with 20um particles
Sample treatment	Peltier cooling system with automatic emptying of the condensation water
Size	19" /4 HE / 400 mm
Operation temperature	+0°C + 45°C
Stock temperature	-20°C + 60°C
Alarm relay	4 x SPDT AC/DC 24 V 1A
Protection fuses	2 x 4A 5 x 20 T
Analog Outputs	4 x 4-20 mA max resistance load 1 KOhm
Gas 1, Gas 2 Output Connector	1/8 BSPP
Gas Input Connector	1/8 BSPP
Pressure P1, P2 Input Connector	1/8 BSPP
Condensate drainage Output Connector	1 /8 BSPP - fast connection tube 6 mm diameter
Air Connector	1/8 BSPP
Compliant with European Standards	EN 50270, EN 50379-1 ed EN 50379-2
Compliant with USA Standard	CTM030 and CTM034

Chemist Smart Analysis

Dedicated PC Software that allows:

- · Manual analysis
- Periodic data logger parameters set up (autozero time, autozero range, stand-by time, sampling range, number of analysis cycles, start and end date of the analysis)
- Pump control
- · Graphical or numerical visualisation of the parameters
- · Alarms visualisation
- · Instrument parameters set up
- · Fuels set up
- · Alarms set up
- · 4-20mA channels set up
- Operator data set up
- · CSV files data storing







Gas Analysis Probes

CODE	РНОТО	PHOTO DESCRIPTION		CHEMIST 500/500 BG	CHEMIST 600/600 BG	CHEMIST 900	CHEMIST 900 RACK
AASF51A		180 mm flue gas sampling probe, cable length 2m, maximum temperature 400 ° C, without anticondensation unit		₽	₹	5	5
AASF62A		300 mm flue gas sampling probe, cable length 3m, maximum temperature 600 ° C, without anti- condensation unit	1	1	✓		
AASF65A	9	750 mm flue gas sampling probe, cable length 3m, maximum temperature 800 ° C, without anti- condensation unit		1	✓		
AASF66A		1000 mm flue gas sampling probe, cable length 3m, maximum temperature 1200 °C, without anti- condensation unit		1	1		
AASF71A		180 mm flue gas sampling probe, cable length 1.5m, maximum temperature 400 ° C, without anti- condensation unit	✓				
AASF72A		300 mm flue gas sampling probe, cable length 1.5m, maximum temperature 600 ° C, without anti- condensation unit	1				
AASL05A	9	300 mm flue gas sampling probe, cable length 2m, maximum temperature 600 ° C, without anticondensation unit	1	1	✓		
AASF31		180 mm flue gas sampling probe, cable length 3m, maximum temperature 400 ° C			*	1	1
AASF32		300 mm flue gas sampling probe, cable length 3m, maximum temperature 600 ° C			*	✓	✓
AASF35		750 mm flue gas sampling probe, cable length 3m, maximum temperature 600 ° C			*	1	1
AASF36		1000 mm flue gas sampling probe, cable length 3m, maximum temperature 1200 ° C			*	1	1

^{*:} compatible with active external cooler AACE01

Modular Probes

CODE	РНОТО	PHOTO DESCRIPTION		CHEMIST 500/500 BG	CHEMIST 600/600 BG	CHEMIST 900	CHEMIST 900 RACK
AAPT07		300mm flexible tip (*). Measuring range temperature 130°c - for AASJ02 / AASJ03 / AASJ05 handle	✓	1	✓	1	✓
AAPT08		180mm rigid tip (*). Temperature measurement range 400°C - for AASJ02 / AASJ03 / AASJ05 handle	1	1	1	1	1
AAPT09		300mm rigid tip (*). Measuring range temperature 600°C - for AASJ02 / AASJ03 / AASJ05 handle	1	1	1	1	1
AAPT10		750mm rigid tip (*). Temperature measurement range 800°C - for AASJ02 / AASJ03 / AASJ05 handle	1	1	1	1	1
AAPT11	•	1000mm rigid tip (*). Temperature measuring range 1200°C - for AASJ02 / AASJ05 handle	1	1	1		
AASJ02		Flue gas suction probe handle; without ferrule. Cable: 3 m. Fitting diameter 9 mm, without anti-condensation unit	1	1	1		
AASJ03		Flue gas suction probe handle, without tip, rubber hose length 3 m. Fitting diameter 9 mm, without anti-condensation unit				1	1
AASJ05		Flue gas suction probe handle; without ferrule. Cable: 1,8 m. Fitting diameter 9 mm,without anti-condensation unit	✓	1	1		

www.seitron.com Catalog 2021 Rev.00 37

Accessories for Residential Applications

CODE	РНОТО	DESCRIPTION		CHEMIST 500/500 BG	CHEMIST 600/600 BG	CHEMIST 900	CHEMIST 900 RACK		
AACKP01	90	Pressure Differential measurement kit 2 x 1 m hoses + fittings		1	✓	✓	1		
AACTO01		Silicone conical fitting 44 - 22 mm	per kit prova tenuta		prova		а		
AACTO02		Silicone conical fitting 32 - 18 mm	ŗ	er k prova enut	а				
AAKT05		Kit for tightness test with 4 ways manifold, manual pump, 100 ml syringe, hoses, 1 silicone conical fitting		1	1	1			
AARA01		Threaded 9 mm diameter fitting, 1/4" gas coupling, 1/4" to 1/8" gas nipple (for tightness test)	ŗ	er k prova enut	а				
AARA02		Gas valve hose adapter: d.i. 7 mm	1	1	1				
AASA08		Outdoor air temperature 200 mm TcK probe, with 2 m cable	1	1	1				
AASG01		Gas sniffer probe for Chemist 500 analyzers 1 m + fitting		1	1				
AATT01	"L"shaped Pitot Tube. 300 mm length, 6 mm external diameter. Without thermocouple			1	1	1	1		
AATT02	"L"shaped Pitot Tube. 800 mm length, 6 mm external diameter. Without thermocouple		√	1	1	1			

38 Catalog 2021 Rev.00

Accessories for Industrial Applications

CODE	РНОТО	PHOTO DESCRIPTION						
AACEX01		3 m extension cable for flue gas probe (code AASFxxx)						
AAPM02		Bacharach hand Pump for carbon measurements		✓	1	✓	1	
AACE01		Active external cooler (compatible with AASF3xx probes)			✓			
	on Measurement Probe Handle with 3,5m cable	AAPT04 750 mm Rigid Tip				1		
		AAHH04 - AAPT01: 300mm Rigid Tip - AAPT02: 1000mm Rigid Tip heated head				✓	1	
Accessories for i	* AACTA03A	AASP01 Guard shield AASF02 Stainless steel filter with adapter	J	1	✓	1	1	
AATL01		S probe with clamp for 8mm tips, for use on waste systems						
AACP01		External unit for passive sample treatment, for NO2 and SO2 measurement, compatible with AASJ probe	V	✓	1			

^{*:} If not included in the probe AASFxxx

PRINTERS AND CONSUMABLES

CODE	РНОТО	DESCRIPTION	CHEMIST 100 BG	CHEMIST 500	CHEMIST 500 BG	CHEMIST 600	CHEMIST 600 BG	CHEMIST 900
AARC10		Long life plain thermal paper roll 57x30	1	1	1	✓	✓	1
AAST04	batteries included	Thermal printer with Bluetooth connection	1		1		1	

SPARE REPLACEMENT PARTS

CODE	E PHOTO DESCRIPTION		CHEMIST 100 BG	CHEMIST 500/500 BG	CHEMIST 600/600 BG	CHEMIST 900	CHEMIST 900 RACK
AAPB01	SEITEON FORWARD TO THE WAR BASED TO THE	Rechargeable Li-Ion battery, 3,7 V, 4,8 Ah		✓	1		
AAPB13		Rechargeable Ni-MH battery, 7,4 V, 1800 mAh	1				
AAPB12		Rechargeable Li-Ion battery; 11,6V - 6200mAh				1	
AAKA02		Power Adapter with international plug, USB A / USB B with 2 m cable	1	✓	✓		
AACFA01		Fine dust filters for AACTA03 (5 pcs. package) Dimensions 12x32 mm	1	1	1		
AACTA03A		Water trap with dust filter, stainless steel fittings and silicon hose suitable for all combustion analyzers	✓	✓	✓		
AAFA02		Spare Part Filter; dimensions 12x57mm; (2PCS)				✓	✓
AAFA03		HDPE filter for industrial engine probe (2PCS); dimensions 12x32mm; suggested use for NH3 measurements with passive probes		1	1		
AAFA04		HDPE filter for industrial engine probe (2PCS); dimensions 12x57mm; suggested use for NH3 measurements with passive probes				1	1
AAFS01		Inox filter for industrial engine probe; dimensions 12x57mm (AAFS02 Spare Part)		✓	✓	1	1

Catalog 2021 Rev.00 41 www.seitron.com

CASE, HOLSTER AND ACCESSORIES

CODE	РНОТО	DESCRIPTION		CHEMIST 500/500 BG	CHEMIST 600/600 BG	CHEMIST 900	CHEMIST 900 RACK
AACR09	Oseinon .	Hard plastic kit case	✓				
AACR10	Cseinon	Hard plastic kit case		✓	✓		
AASM06		Rubber holster		CHEMIST 500	CHEMIST 600		
AASM07	(Repl)	Rubber holster	1				
AASM10	and the second	Rubber holster		CHEMIST 500 BG	CHEMIST 600 BG		
AAEB01		Trunk Extension - Chemist 900				1	
AATY01		Trolley for Trunk - Chemsit 900				✓	

42 Catalog 2021 Rev.00 www.seitron.com

CALIBRATION CERTIFICATE

COD	DESCRIPTION					
CER012	ISO 9001 calibration certificate for 2 sensors analyzers					
CER013	ISO 9001 calibration certificate for 3 sensors analyzers					
CER 014	ISO 9001 calibration certificate for 4 sensors analyzers					
Calibration certificates on analyzers with more than 4 sensors can be performed by request						

To ensure your and your customers' safety, please remind that the current legislation imposes that all measuring instruments

UNI 10389-1:2009 - Combustion analyzers

UNI 11137:2019 - Manometers and analyzers in use also for gas plants leak tests

UNI 10845:2018 - Manometers and analyzers in use also for open chamber boilers draft

(*) Chemist 900 and Chemsit 900 Rack Analyzers are excluded

must be calibrated by a lab and certified every 12 months.

MAINTENANCE CONTRACTS

COD	DESCRIPTION
CON009	Annual maintenance contract for 2 sensors analyzers: Gamma Chemist 500 and 500 Be Green
CON010	Annual maintenance contract for 3 sensors analyzers: Gamma Chemist 500 and 500 Be Green
CON011	Annual maintenance contract for 4 sensors analyzers: Gamma Chemist 500 and 500 Be Green

www.seitron.com Catalog 2021 Rev.00

43

GAS SENSORS

GAS	CODE	RANGE	GAS SENSOR	RESOLUTION	ACCURACY
02	AACSE15	025% v/v	Electrochemical sensor	0.1% vol	±0.2% vol
02	AACSE50	025% v/v	Electrochemical sensor	0.1% vol	±0.2% vol
O2 Long Life	AACSE44	025% v/v	Electrochemical sensor	0.1% vol	±0.2% vol
CO / H2	AACSE12	08000 ppm	Electrochemical sensor	1 ppm	±10 ppm ±5% ±10%
CO / H2 Low Range	AACSE24	01000 ppm	Electrochemical sensor	0.1 ppm	±2 ppm ±5%
CO high immunity H2 with NOx filter	AACSE58	04000 ppm	Electrochemical sensor	1 ppm	±20 ppm ±5% ±10%
CO	AACSE17	010.00% Vol (100.000 ppm)	Electrochemical sensor	0.01% vol	±0.1% vol ±5%
со	AACSE18	020000 ppm	Electrochemical sensor	1 ppm	±100 ppm ±5% ±10%
C02	AACSE47	050% v/v	NDIR Sensor	0.1% vol	±1% ±2%
NO	AACSE60	02000 ppm	Electrochemical sensor	1 ppm	±5 ppm ±5% m.v. ±10% m.v.
NO	AACSE10	05000 ppm	Electrochemical sensor	1 ppm	±5 ppm ±5%
NO Low Range	AACSE25	0500,0 ppm	Electrochemical sensor	0.1 ppm	±2 ppm ±5%
NO2	AACSE14	01000 ppm	Electrochemical sensor	1 ppm	±5 ppm ±5%
NO2 Low Range	AACSE26	0500,0 ppm	Electrochemical sensor	0.1 ppm	±2 ppm ±5%
S02	AACSE13	05000 ppm	Electrochemical sensor	1 ppm	±5 ppm ±5%
SO2 Low Range	AACSE28	0500,0 ppm	Electrochemical sensor	0.1 ppm	±2 ppm ±5%
Sniffer Gas CH4	AACSE19	010000 ppm CH4	Electrochemical sensor		
CH4	AACSE73	0100% v/v	NDIR single band Sensor	0,01% Vol	0-10% 10%-100%
СхНу	AACSE39	05.00% Vol CH4	Pellistor sensor	0.01% vol	±0.25% vol
H2	AACSE57	02000 ppm	Electrochemical sensor	1 ppm	± 10 ppm ± 10 %
H2	AACSE78	040000 ppm	Electrochemical sensor	10 ppm	± 100 ppm ± 10 % m.v.
H2S	AACSE72	05000 ppm	Electrochemical sensor	1 ppm	+/- 5ppm +/- 5% m.v. +/- 10% m.v.
H2S Low Range	AACSE35	0500,0 ppm	Electrochemical sensor	0.1 ppm	±5 ppm ±5% m.v.
NH3	AACSE56	0500,0 ppm	Electrochemical sensor	0.1 ppm	+/-10ppm +/-10% m.v.

44 Catalog 2021 Rev.00 www.seitron.com

	CHEMIST 100 BG	CHEMIST 500/500 BG	CHEMIST 600/600 BG	CHEMIST 900/900 RACK
		✓		
	✓			
		✓	✓	✓
0 200 ppm 201 2000 ppm 2001 8000 ppm		✓	V	✓
0 40.0 ppm 40.1 500.0 ppm		✓	✓	✓
0 400 ppm 401 4000 ppm 4001 8000 ppm	✓			
0 2.00 % 2.01 10.00 %		✓	✓	✓
0 2000 ppm 2001 4000 ppm 4001 20000 ppm		✓	√	√
0 10 % 10 50 %		✓	✓	✓
0 100 ppm 101 1000 ppm 1001 2000 ppm	✓			
0 100 ppm 101 5000 ppm		✓	✓	✓
0 40.0 ppm 40.1 500.0 ppm		1	√	✓
0 100 ppm 101 1000 ppm		✓	✓	✓
0 40.0 ppm 40.1 500.0 ppm		✓	✓	✓
0 100 ppm 101 5000 ppm		✓	✓	✓
0 40.0 ppm 40.1 500.0 ppm		✓	✓	✓
		✓		
0,3% Vol 10% vm			✓	
		✓	✓	✓
0 ppm - 100 ppm 100 ppm - 2000 ppm			√	√
0 ppm - 1000 ppm 1001 - 40000 ppm			✓	✓
0-100,0 ppm 100,0-500,0 ppm 501-5000 ppm			√	√
0 100.0 ppm 100.1 500.0 ppm			✓	√
0100.0ppm 100.1 a 500.0			V	√

 ${\scriptstyle \text{www.seitron.com}} \qquad \qquad {\scriptstyle \text{Catalog 2021 Rev.00}} \qquad 45$

SENSORS FOR DISCONTINUED ANALYZERS

Gas	Range	Code	Chemist 200-300	Chemist 400	Casper
02	025% v/v	AACSE07	✓		
02	025% v/v	AACSE15		✓	✓
CO	08000 ppm	AACSE20			✓
CO / H2	08000 ppm	AACSE05	✓		
CO / H2	08000 ppm	AACSE12		✓	
NO	05000 ppm	AACSE06	/		
NO	05000 ppm	AACSE10		✓	✓

PORTABLE INSTRUMENTS



PRESSOTEST 100 **PORMDZBI**

CER006

Calibration Certificate ISO 9001





2 YEARS WARRANTY

DIGITAL MICROMANOMETER

Digital micromanometer with selectable measurement unit among the 6 most widely used. Auto-zero, hold and programmable cut-off.

TECHNICAL FEATURES

Power supply (battery) 6 x 1.5V AAA Battery life 100h

Auto cut-off Adjustable 1.. 30 min.

Zeroing Automatic Full scale range ±130 hPa (mBar)

0.01hPa (P<100hPa), 0.1hPa (P>100hPa) Resolution 1.5% v.l. (P<-15hPa); ±0.1hPa (-15hPa Accuracy

<P<+15hPa); 1% v.l. (P>15hPa);

LCD display 2x4 digits + analog scale H162 W87 D41mm **Dimensions**

Measurement units Pa, hPa (mBar), kPa, mmH20, mmHg, PSI

IP rating IP30

GAS T ONE

KV0001

Kit For Pipes Tightness Test with Printer

Kit For Pipes Tightness Test without Printer

CER008

Calibration Certificate ISO 9001



KIT FOR PIPES TIGHTNESS TEST

Kit for checking the tightness of fuel gas distribution systems.

Supplied in a practical rigid case, it includes:

- GAS-T-ONE micromanometer, developed for performing leak tests in accordance with the Europeans standards UNI 7129 (new systems) and UNI 11137 (existing systems);
- A Bluetooth® printer code KV0001 for printing the receipts documenting the results of the checks (rechargeable batteries included);
- A power supply unit; a series of tubes in a special non-porous plastic material with a ball cock;
- Plugs of different diameters and metal fittings;
- A pump in rubber for the use of air as a test gas.

Seitron Smart Analysis APP is available for QR Code reading, data acquisition directly from the Smartphone and sharing in pdf or csv format.



WARRANTY



Seitron Smart Analysis







POLF02



2 YEARS WARRANTY

PORTABLE GAS DETECTOR WITH RECHARGEABLE BATTERY

Microprocessor based portable gas detector. Wide LCD display with 4 digits, with measurement unit and battery charge indication, acoustic alarm. For hydrocarbon gases (natural gas, LPG, CxHy). Hold and auto-zero functions.

TECHNICAL FEATURES

Power supply battery Battery pack Li-ion 3.7V, 2000 mAh

Battery life/auto power down
Display LCD
4 digits
Min. detectable value
Detectable gas
20h.. 30 min.
4 digits
100ppm CH4
Natural gas, LPG, CxHy

Dimensions H151 W72 D37mm

IP rating IP20 Battery charger 5V

Notes: The gas sniffer PO LF02 is not a measurement instrument. Digits figures in ppm on LCD are for indication only. For this reason, no calibration certificate is supplied.



2 YEARS WARRANTY

PORTABLE GAS DETECTOR

Microprocessor based portable gas detector. Wide LCD display with 4 digits, with measurement unit and battery charge indication, acoustic alarm. For hydrocarbon gases (natural gas and LPG). Hold and auto-zero functions.

TECHNICAL FEATURES

 $\begin{array}{lll} \mbox{Power supply battery} & 6 \times 1,5 \mbox{V AAA} \\ \mbox{Battery life/auto power down} & 4 \mbox{h / 1 .. 30 min.} \\ \mbox{LCD display} & 4 \mbox{digits} \\ \mbox{Min. detectable value} & 100 \mbox{ppm CH4} \\ \mbox{Detectable gas} & \mbox{Natural gas, LPG} \\ \mbox{Dimensions} & \mbox{H151 W72 D37mm} \end{array}$

IP rating IP20

Notes: The gas sniffer POR RDZ BI is not a measurement instrument. Digits figures in ppm on LCD are for indication only. For this reason, no calibration certificate is supplied.

www.seitron.com Catalog 2021 Rev.00

49

POTK01

Including 2 STS KX 01 probes (1m lenght)

CER017

Calibration Certificate ISO9001



2 YEARS WARRANTY

2 TKC INPUTS THERMOMETER

Portable digital thermometer with LCD display. 2 inputs type K thermocouple. Functions: maximum; data hold; differential between the two temperatures and offset adjustment.

TECHNICAL FEATURES

Power supply (battery) 1x 9V Battery life ~100h

Operating range $-200^{\circ}\text{C} \sim 1370^{\circ}\text{C} -328^{\circ}\text{F} \sim 2490^{\circ}\text{F}$ Resolution $1^{\circ}\text{C} \text{ or } 1^{\circ}\text{F}, 0,1^{\circ}\text{C or } 0,1^{\circ}\text{F}$ Accuracy $\pm (0.5^{\circ}\text{T}1\text{-T2 reading} + 2^{\circ}\text{C or } + 2^{\circ}\text{F})$ LCD display 4 digital liquid crystal display

Sensor TcK

Dimensions H184 W64 D30mm

ACCESSORIES

AAST04

Thermcal Bluetooth® Printer





ACCCHIAVE01

Gas Key 24-30 mm



STSKL01

Type K Thermocouple probe for liquids



STSKC01

K type Thermocouple probe for contact



PORFLU Glass fluxmeter



SMART HOME



KIT hygge Home

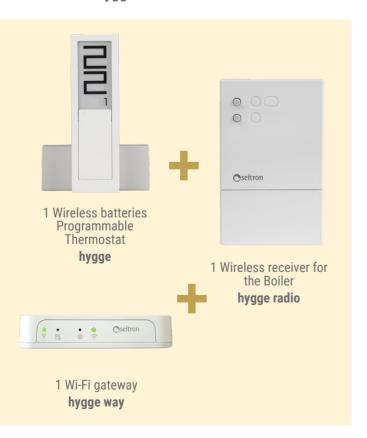
KTY001

1 KIT hygge Home weekly





The hygge Home KIT included:



WIRELESS THERMOSTAT KIT CONTROLLED VIA APP

Hygge Home system allows to control the domestic heating through the wireless thermostat that can be easily moved in any room! When being away from home, you can keep the temperature under control on your smartphone thanks to Seitron Smart App.

TECHNICAL FEATURES

Thermostat

Power Supply: 2 x1,5V batteries AAA Working Range: +5.0..+35.0 °C Resolution: 0.1 °C Class Reg.2013/811/CE: I = 1,0%

Gateway

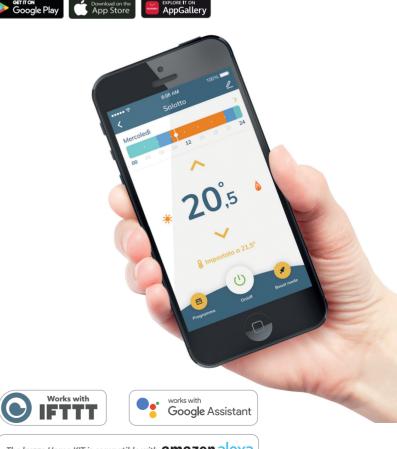
Power Supply: 100..253Vac 50-60Hz Wi-Fi 802.11 b/g/n

Wireless Receiver

Poer Supply: 24V/230Vac 50Hz Contacts rating: 2x6(4)A 250 Vac SPDT







The hygge Home KIT is compatible with amazon alexa

hygge

DTD31B

Weekly wireless thermostat











WIRELESS THERMOSTAT CONTROLLED VIA APP

hygge is the wireless thermostat that allows the control of the domestic heating directly on the smartphone.

Thanks to Seitron Smart App it is possible to program the home temperature, to activate the boost mode for a quick heating, to monitor the expenses through graphs and statistics about the boiler switch-on.

Hygge can be wall-mounted or easily moved from a room to another and placed on his magnet base.

TECHNICAL FEATURES

2x1.5V batteries size AAA Power supply: Dimensions: 35x115x19 mm (LxAxP)

Frequency: 868,450 MHz Max. RF power transmitted: 1 mW

Antenna Type: Internal

Max.distance from receiver:

> 300 m in free field

> 50 m inside buildings, depending on the type and environment

Working Range: 5,0 .. 35,0°C

NTC 10kohm ±1% @ 25°C B(25/85)=3977 Sensor Type:

Resolution: 0.1°C Operating temperature: 0°C .. +50,0°C

Accuracy: ±1,0°C

Offset: ± 10.0°C. (Default 0.0°C)

IP rating: IP30 Class Reg.2013/811/CE: I = 1,0%



53

wi-time wall

GCW01MR

Black Color

GCW02MR

White Color



Wi Fi



TECHNICAL FEATURES

switchON devices.

WIFI PROGRAMMABLE THERMOSTAT - WEEKLY -

Wall mounted WiFi chronothermostat powered at 230V for hot / cold

operation, with weekly programming that can be set via the Seitron Smart

App. Antifreeze function. Boost function 30-60-90min. Functions for hotels and b & bs with settings lock and temperature adjustment range limitation.

Possibility of expanding some features by pairing via radio with one or two

Power Supply Sensor type Contatct rating

WiFi Boost mode Display

Dimensions
Protection rating

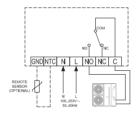
Classe Reg.2013/811/CE

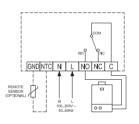
100 .. 253V~ 50 .. 60Hz NTC 10K 0hm ±1% @ 25°C max 3A 250V~ SPDT 802.11 b/g/n 30-60-90 min

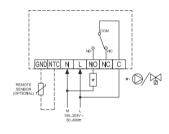
Colors TFT 122x82x15 mm

IP30 IV = 2,0%















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Room Temperature Probe STAD01

Room Temperature Probe **STLD01**

Seitron Smart Temperature under control







App Seitron Smart

Set up and control your thermostats with Seitron Smart App for Android and iOS.

- Handle one or more thermostats in different buildings
- · Easy to use
- · Switch heating/cooling mode



wi-time

GIW01MR

Black Color

GIW02MR

White Color





switchON devices.

TECHNICAL FEATURES

WIFI PROGRAMMABLE THERMOSTAT - WEEKLY -

Semi-recessed WiFi chronothermostat powered at 230V for hot / cold

operation, with weekly programming that can be set via the Seitron Smart

App. Antifreeze function. Boost function 30-60-90min. Functions for hotels and b & bs with settings lock and temperature adjustment range limitation.

Possibility of expanding some features by pairing via radio with one or two

Sensor type Contatct rating

WiFi

Wi Fi

Boost mode
Display
Dimensions
Protection rating

Classe Reg.2013/811/CE

100 .. 253V~ 50 .. 60Hz NTC 10K 0hm ±1% @ 25°C

max 3A 250V~ SPDT

802.11 b/g/n 30-60-90 min Colors TFT

122x82x15 mm

IP30 IV = 2,0%





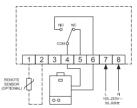


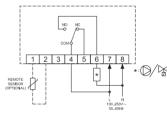


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Room Temperature Probe STAD01

Room Temperature Probe **STLD01**







Seitron Smart Temperature under control







App Seitron Smart

Set up and control your thermostats with Seitron Smart App for Android and iOS.

- Handle one or more thermostats in different buildings
- · Easy to use
- Switch heating/cooling mode



hygge way

GG0315

hygge Gateway







WI-FI GATEWAY

This gateway is the centre of the thermoregulation home automation system, based on hygge thermostats. Its function is to collect the data flow coming from wireless thermostats 868MHz and to lead this information to the Cloud, in order to allow two operations:

- · Remote control of the devices
- · Data record

Gateway circuit is placed in an ABS plastic case. There are some LED on the gateway that indicate the device status:

LED 1 - Wi-fi: it indicates the communication status to the cloud

LED 2 – Radio: it indicates when there's a running communication towards the devices

TECHNICAL FEATURES

Wifi Connectivity: 802.11.b/g/n

RF Connectivity: 868 MHz bidirectional

Case: ABS + PC IP rating: IP30

hygge radio

2 outputs receiver



2 CHANNELS RADIO RECEIVER (BIDIRECTIONAL)

2-channel radio receiver, equipped with an integrated antenna and 2 SPDT relay outputs that can drive an actuator or a circulation pump or directly a boiler. Suitable for 2-zone solutions. Two-color LED for indicating the status of the output relay and the quality of the radio connection with the related transmitter. Self-learning of the transmission code.

featured with bidirectional wireless technology, it allows to receive commands from DTD31B thermostats to control actuators, solenoid valves, automatic shutters, fans, or directly a boiler.

TECHNICAL FEATURES

Power supply: $24V/230V \sim \pm 10\% 50Hz$

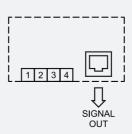
Absorption: 11VA

Output (relay): 2x6(4)A 250V~ Frequency: 868,450 MHz Type of antenna: Internal stylus

2 colors LED indicator: Active relay / transmission quality

Protection rating: IP3

Dimensions: A125 L78 P30,5mm



56 Catalog 2021 Rev.00

switchON GS001M





WI-FI SWITCH

SwitchON is a Wi-Fi switch for the home automation, with a double functionality. It can be configured as wi-fi IoT switch (remote switch). Through the dedicated Seitron Smart App, it is possible to activate or deactivate two loads, one for each relay of the product; loads can be, for example, an irrigation system, a light system or a motorized overhead door; or it can be used as radio receiver with 2.4 GHz designed for the activation of one or two loads (electrothermical valve or circulator) in heating/cooling radio systems for domestic environments or offices. With the two outputs it is possible to manage also the mode and a heat pump activation. Up to 6 wi-time thermostats can be connect to the switch-on.

TECHNICAL FEATURES

95..290Vac - 47..440Hz **Power Supply** Absorbed power less than 2W

Relay Contacts Rating 2 x 3A 250Vac/3A 30Vdc max - SPDT

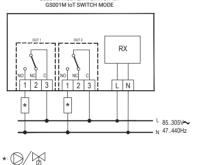
Wi-Fi 802.11 b/g/n IP 3X IP Rating

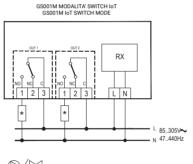
Dimensions 125x78x30.5 mm





switchON is compatible with amazonalexa





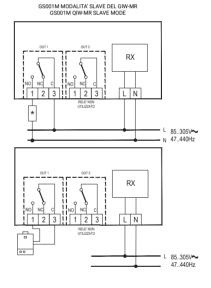


Seitron Smart Temperatura sotto controllo Temperature under control



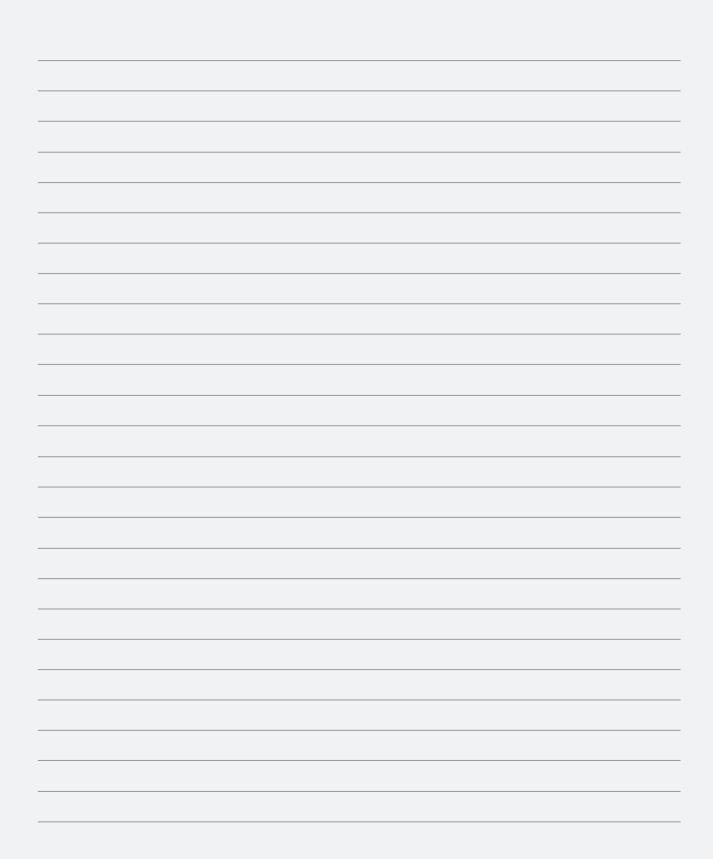












PROGRAMMABLE THERMOSTATS



FREETIME EVO

Daily and Weekly

TCD02B



ELECTRONIC PROGRAMMABLE THERMOSTAT - DAILY AND WEEKLY

Wall-mounted, battery powered daily programmable electronic thermostat, allows to set the room temperature easily and precisely.

It can be set from the menu in daily or weekly mode, according to your needs.

Suitable for controlling Heating and Cooling systems through a relay output with changeover contacts (C, NC, NO). The regulation of the room temperature happens on two levels: Comfort and Economy (according to the set time program).

TECHNICAL FEATURES

Power supply: 2 x 1,5V alkaline

Battery life: >3 years

Contact rating: 5(1)A 250V~ SPDT

Type of internal sensor: NTC 10K Ohm ±1% @ 25°C

Range: -9,9°C .. +50,0°C

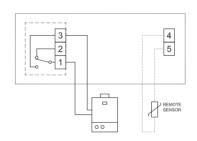
Precision: ±1,0°C

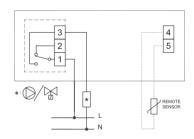
Resolution: 0.1°C. (0.0°C .. 50.0°C)

0.2°C. (-9.9°C .. -0.1°C)

Max. remote sensor wires length: 15 m
Protection grade: IP 30
Classe Reg. 2013/811/CE IV=2,0%

Room Temperature Probe STAD01 Room Temperature Probe STLD01







FREETIME plus TCD01B



Room Temperature Probe STAD01

DIGITAL PROGRAMMABLE THERMOSTAT - DAILY -

Battery powered chonothermostat for heating/cooling, daily programming with pins for 2 adjustable temperature levels and anti-frost function. Large backlit LCD display. Adjustable differential. Facility for remote sensor. Very user friendly.

TECHNICAL FEATURES

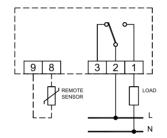
Battery powered 2 x 1,5V AA
Operation On/Off Heating/Cooling
Available set-points 2 (comfort-economy)
Working range 10 .. 30°C
Adjustable Anti-frost 0°C .. 25.0°C
Adjustable differential 0.0°C .. 20.0°C

Internal sensor NTC (10k Ohm @ 25°C)
Temperature display Backlit 3 digit LCD
Output (relay) 5(1)A @ 250V~ SPDT

IP rating IP30

Dimensions H87 W133 D32mm

Class Reg.2013/811/EC IV = 2,0%



Main applications: driving zone valves - pumps wall boilers

TEMPORA

TCEGIOBI03



ELECTRONIC PROGRAMMABLE THERMOSTAT

Battery powered analog electronic programmable thermostat, daily (TCEGIOBIO3) and weekly (TCESETBIO3) programming with timer for 2 temperatures adjustable with knobs. Three operating modes: off-antifrost/automatic/manual.

TECHNICAL FEATURES

Programming Daily (TCEGIOBI03)
Weekly (TCESETBI03)

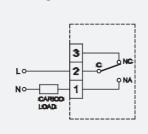
Operation On/Off-anti frost/manual Available set-points 2 (comfort-economy)

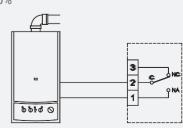
 $\begin{array}{lll} \mbox{IP rating} & \mbox{IP20} \\ \mbox{Working range (comfort)} & \mbox{10 .. } 30^{\circ}\mbox{C} \\ \mbox{Working range (economy)} & \mbox{10 .. } 26^{\circ}\mbox{C} \\ \end{array}$

Internal sensor NTC (10k 0hm @ 25°C)
Output (relay) 5(1)A @ 250V~ SPDT

Dimensions H84 W156 D36mm

Class Reg.2013/811/EC | I = 1,0%





61

THYGROS

THW01B

Dehumidification only in cooling mode

THW02B

Dehumidification in heating and cooling modes



Sonda Ambiente STAD01

PROGRAMMABLE THERMO-HYGROSTAT

Battery powered programmable thermo-hygrostat, heating/cooling and humidification/dehumidification modes, up to 7 different programs with 48 time cycles per day and 3 temperature and humidity levels (Comfort, Economy, Off/Antifrost). Antifrost function and dew point control. Large backlit LCD. Start optimizer. Holidays (1h \div 99dd) and cleaning mode. Facility for switching on via telephone and facility for remote sensor.

TECHNICAL FEATURES

Available modes 3 (comfort-economy-Off/anti frost)

Working range $5...40^{\circ}$ C Anti-frost $0,5...25^{\circ}$ C

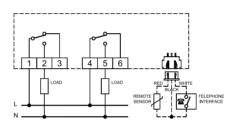
 $\begin{array}{lll} \text{Internal sensor} & \text{NTC (10k 0hm @ 25^{\circ}\text{C})} \\ \text{Output} & 5(1) \text{A @ 250V} \sim \text{SPDT} \\ \text{Dimensions} & \text{H87 W132 D27mm} \\ \end{array}$

IP rating IP30

Available set-points 3 (comfort-economy-Off/dew point)

Working range 10 .. 95% RH

Output 5(1)A @ 250V~ SPDT



THERMOSTATS

WIRING BOXES



TADDY TAD02B



Room Temperature Probe STAD01

BATTERY POWERED DIGITAL THERMOSTAT

The device can be used both in heating and cooling systems, and it is featured with a wide backlit display for the visualization of all the functional indications and the detected room temperature. The device can be used both in heating and cooling systems. Furthermore, the device offers the possibility to set the value of the antifreeze temperature and the Offset regulation on the internal and remote sensor.

TECHNICAL FEATURES

Power supply: 2 x 1,5V, alkaline batteries (type AAA)
Setting range: Comfort: 5°C .. 40°C - Economy: 5°C .. 40°C

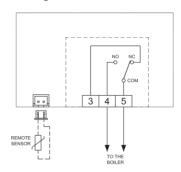
Type of sensor: NTC 10K0hm $\pm 1\%$ @ 25°C Differential: 0.0°C .. 5.0°C (Default 0.2°C) Antifrost: OFF / 0.0°C .. 25.0°C (Default 3.0°C)

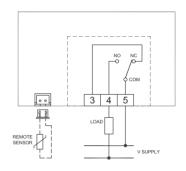
Offset internal sensor: ± 9.9°C (Default 0.0°C)

Contact rating: 5(1)A 250V~ SPDT, voltage free.

Dimensions: 85x85x24,6 mm

Protection rating: IP 30 Class Reg.2013/811/EC: I = 1,0%





TADDY

TAD02M

230Vac

TAD022

24Vac



Room Temperature Probe STAD01

230V/24V DIGITAL ROOM THERMOSTAT

The device can be used both in heating and cooling systems, and it is featured with a wide backlit display for the visualization of all the functional indications and the detected room temperature. The device can be used both in heating and cooling systems. Furthermore, the device offers the possibility to set the value of the antifreeze temperature and the Offset regulation on the internal and remote sensor.

TECHNICAL FEATURES

Power supply (TAD 02M) 230V~ -15/+10% 50Hz

(TAD 022) 24V~ -15/+10% 50Hz

Absorbed power: 1,7VA

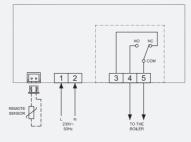
Setting range: Comfort: 5°C .. 40°C

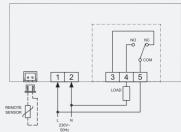
Differential: 0.0°C .. 5.0°C (Default 0.2°C)
Antifrost: 0FF / 0.0°C .. 25.0°C (Default 3.0°C)

Offset internal sensor: ± 9.9°C (Default 0.0°C)

Contact rating: 5(1)A 250V~ SPDT, voltage free.

Grado di protezione: IP30 Classe Reg.2013/811/CE: I = 1,0%





www.seitron.com

TAS04M

230Vac

TAS042

24Vac

TA SO4MT

230V~ Tamperproof

TAS042T

24V~ Tamperproof



Room Temperature Probe STANP3 Remote Probe STLNTSA150

ELECTRONIC ROOM THERMOSTAT

On/off room thermostat for heating systems. Special pin stop system for limiting the setpoint range. Internal sensor and facility for remote sensor (STL NTS A 150 or STA NP3).

TECHNICAL FEATURES

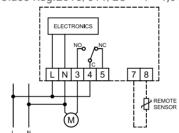
Power supply (TAS04M) 230V~ -15/+10% 50Hz (TAS042) 24V~ -15/+10% 50Hz

Working range 6 .. 30°C
Power consumption 7 VA max.
Differential 0.5°C

Sensor NTC (4k7 0hm @ 25°C) Output (relay) 1x5(1)A @ 250V~ SPDT

Red LED indicator Relay active
Dimensions H85 W85 D31mm

IP rating IP30 Class Reg.2013/811/EC I = 1,0%



TAS05M

230Vac

TAS052

24Vac

TAS05MT

230V~ Tamperproof

TAS052T

24V~ Tamperproof



Room Temperature Probe STANP3 Remote Probe STLNTSA150

ELECTRONIC ROOM THERMOSTAT NIGHT SET-BACK

On/off room thermostat for heating systems with adjustable night set-back. Special pin stop system for limiting the setpoint range. Internal sensor and facility for remote sensor (STL NTS A 150 or STA NP3).

TECHNICAL FEATURES

Power supply (TAS05M) 230V~ -15/+10% 50Hz

(TAS052) 24V~ -15/+10% 50Hz

Working range 6 .. 30°C

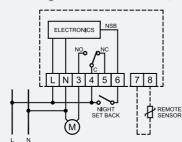
Night set-back range 2°C .. 7°C (Default 4,5°C)

Power consumption 7 VA max. Differential 0.5°C

Sensor NTC (4k7 0hm @ 25°C) Output (relay) 1x5(1)A @ 250V~ SPDT

Red LED indicator Relay active
Dimensions H85 W85 D31mm

IP rating IP30 Class Reg.2013/811/EC I = 1,0%



65

TAEZN4MC

230Vac

TAEZN42C

24Vac



Room Temperature Probe STANP3 Remote Probe STLNTSA150

DEADBAND THERMOSTAT

Adjustable deadband thermostat with two outputs for heating/cooling, automatic change-over based on air. Special pin stop system for limiting the set-point range. Internal sensor and facility for remote sensor.

TECHNICAL FEATURES

Power supply (TAEZN4MC) 230V~ -15/+10% 50Hz

(TAEZN42C) 24V~ -15/+10% 50Hz

Working range 6 .. 30°C

Neutral zone 1 .. 11°C (adjustable) Internal sensor NTC (4k7 0hm @ 25°C)

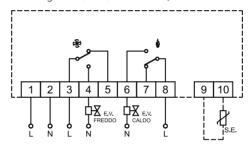
Differential <0.5°C

Output (relay) 2x5(1)A @ 250V~ SPDT

Red LED indicator Heating
Green LED indicator Cooling

Dimensions H85 W85 D31mm

IP rating IP30



TAN01M

230Vac

TAN012

24Vac



Room Temperature Probe STANP3 Remote Probe STLNTSA150

ELECTRONIC ROOM THERMOSTAT HEATING/COOLING 230V - 24V

On/off room thermostat for heating/cooling systems. Special pin stop system for limiting the setpoint range. Internal sensor and facility for remote sensor (STL NTS A 150 or STA NP3).

TECHNICAL FEATURES

Power supply (TAN01M) 230V~ -15/+10% 50Hz

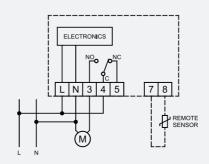
(TAN012) 24V~ -15/+10% 50Hz

Working range 6 .. 30°C
Power consumption 7 VA max.
Differential 0.5°C

Sensor NTC (4k7 Ohm @ 25° C) Output (relay) 1x5(1)A @ $250V \sim SPDT$

Red LED indicator Relay active
Slide switch Off/heating/cooling
Dimensions H85 W85 D31mm

IP rating IP30 Class Reg.2013/811/EC I = 1,0%



66 Catalog 2021 Rev.00

TM001M

TM002M

With light indication





ROOM THERMOSTAT ROOM THERMOSTAT WITH LIGHT INDICATION

Electro-mechanical room thermostat with gas filled bellow. Light indication (only for cod. TM002M). Special pin stop system for limiting the set-point range.

TECHNICAL FEATURES

Dimensions

Working range 8 .. 30°C

Sensor Vapour pressure

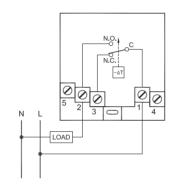
Differential <1°K

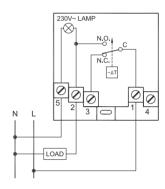
Contacts rating 16A @ 250V~ SPDT TM0 01M TM0 02M 16A @ 250V~ SPDT

H85 W85 D31mm

IP rating IP30

Class Reg.2013/811/EC I = 1.0%





TM003M

On/Off switch

TM004M

Heating/cooling switch





ON/OFF THERMOSTAT HEATING/COOLING THERMOSTAT

Electro-mechanical room thermostat with gas filled bellow. Light indication. On/off switch (cod. TM003M) or heating/cooling switch (cod. TM004M). Special pin stop system for limiting the set-point range.

TECHNICAL FEATURES

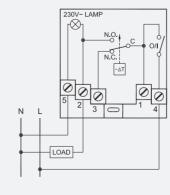
Working range 8 .. 30°C

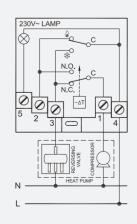
Sensor Vapour pressure

Differential <1°K

10A @ 250V~ SPDT Contacts rating **Dimensions** H85 W85 D31mm

IP rating IP30 Class Reg.2013/811/EC I = 1.0%





THERMOSTATS RANGE COMPARISON CHART

CODE	Power Supply	LCD	Selector	Tamper- proof	Remote Probe opt.	Night Set	Dead Band	Output
TAD02B	Batteries	✓	On-Off		✓	✓		1x5A
TAD02M	230V	✓	On-Off		✓	✓		1x5A
TAD022	24V	✓	On-Off		✓			1x5A
TAS042	24V				✓			1x5A
TAS042T	24V			✓	✓			1x5A
TAS04M	230V				✓			1x5A
TAS04MT	230V			✓	✓			1x5A
TAS052	24V				✓	✓		1x5A
TAS052T	24V			✓	✓	✓		1x5A
TAS05M	230V				✓	✓		1x5A
TAS05MT	230V			✓	✓	✓		1x5A
TAN012	24V		Off/Heating/Cooling		✓			1x5A
TAN01M	230V		Off/Heating/Cooling		✓			1x5A
TAEZN42C	24V				✓		✓	2x5A
TAEZN4MC	230V				✓		✓	2x5A
TM001M	230V							1x16A
TM002M	230V							1x16A
TM003M	230V		On/off					1x10A
TM004M	230V		Heating/Cooling					1x10A

FLOOR HEATING POWER AND WIRING UNITS

European demand for under floor heating systems, also known as UFH (Under Floor Heating) has been constantly increasing for years. This growth is due to a series of advantages which traditional solutions do not have: better environmental comfort, cleaning and design, lower consumption, higher adaptability to condensating boilers and to all renewable heating sources with low temperature as well as the possibility of cooling in summer.

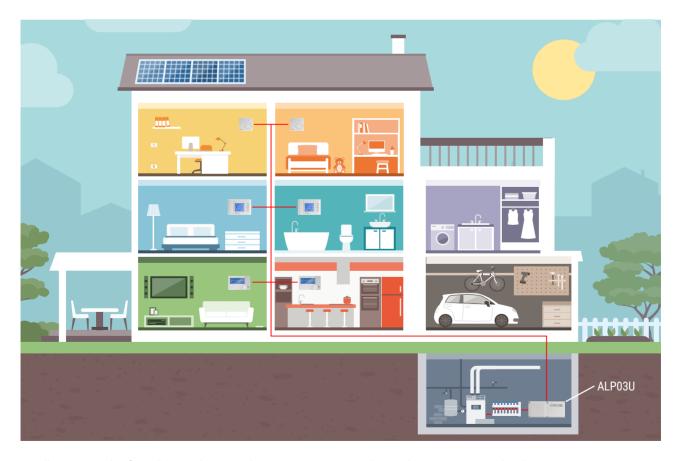
In all Northern Europe UFH systems have been the most used solution in the new plants for years. Their sales are continually increasing in Italy, too. UFH systems are intrinsically split into zones, because each room is powered by its own dedicated circuit, starting from a manifold equipped with on – off valves.

SEITRON has developed specific solutions for zone adjustment of under floor heating systems, both with wired products and completely wireless, products communicating via radio. (See else where in the catalogue the wireless system section).

WIRE CONNECTION SOLUTION

This solution is based on two ranges of products:

- Electronic room thermostats: a complete range of reliable competitive and high performance devices with 230V~ or 24V~ supply, available also in tamperproof 230V~ or 24V~ version.
- Wiring center which make easier the connection of the room thermostats and the manifold on- off valves, available in 6, 8 and 12 channels, 230V~ or 24V~ supply.



Installation example of a ALP03U with 6 room thermostats in input, 6 valves and a pump connected at the output.

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ALC006M

With 230V/24V transformer

ALC006U

Without transformer





6 CHANNELS WIRING BOX

6 outputs wiring box for floor heating plants with 230V~/24V~ transformer (cod. ALC006M) or without transformer (cod. ALC006U). 6 outputs available.

TECHNICAL FEATURES

Power supply cod. ALC006M: 230V~ ±10% 50Hz

cod. ALC006U: Universal (24 .. 230V~)

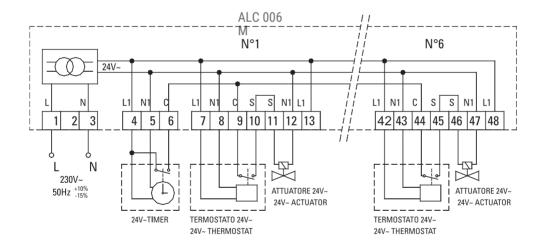
Power absorption cod. ALC006M: 24VA

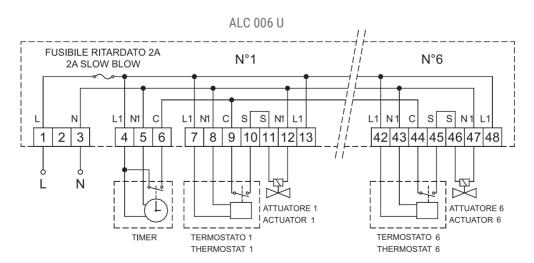
Max load cod. ALC006M: 1A @ 24V~(Tot.)

cod. ALC006U: 2A @ V power supply (Tot.)

Dimensions H100 W245 D60mm

IP rating IP30





ALC012M

With 230V/24V transformer

ALC012U

Without transformer





WIRING BOX 12 CHANNELS

12 outputs wiring box for floor heating plants with $230V\sim/24V\sim$ transformer (cod. ALC012M) or without transformer (cod. ALC012U). 12 outputs available

TECHNICAL FEATURES

Power supply cod. ALC012M: 230V~ ±10% 50Hz

cod. ALC012U: Universal (24 .. 230V~)

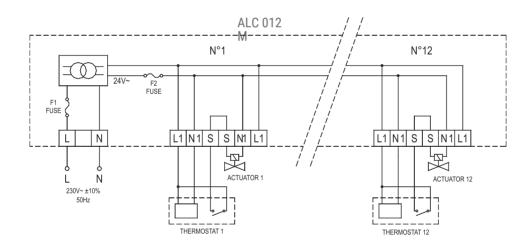
Power absorption cod. ALC012M: 40VA

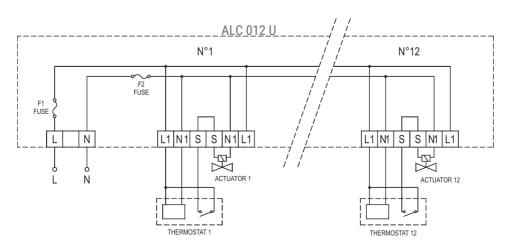
Max load cod. ALC012M: 10A @ 24V~(Tot.)

cod. ALC012U: 10A @ V power supply (Tot.)

Dimensions H100 W245 D60mm

IP rating IP30





ALP06U



4 CHANNELS WIRING BOX PUMP AND BOILER CONTROL 230V-24V

Electronic control for floor heating systems, with 24V~ or 230V~ power supply. The control offers the possibility to connect up to 4 thermostats and up to 4 actuators with selectable power supply between 24V~ or 230V~. Pump output, boiler control output and input for an external clock for the activation of the section of the actuators and thermostats.

TECHNICAL FEATURES

Power supply 230V ±10% 50Hz or 24V ±10% 50Hz

Power absorption Depends on the loads connected

Output:

Pump (powered) 3A Boiler (voltage free) 1A

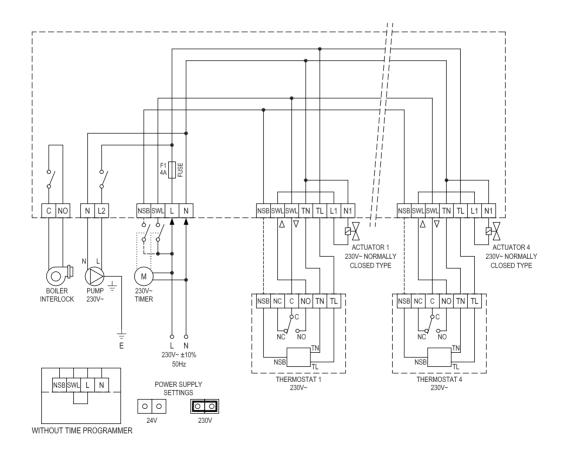
Actuators and thermostats max 1A each channel

max 1A total

Green LED indicator Power supply Red LED indicator Pump active

IP protection IP30

Case ABS V0 self-extinguishing Dimensions H100 W130 D60mm



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ALCD08M0M



8 CHANNELS WIRING BOX PUMP AND BOILER CONTROL 230V

Electronic control for floor heating systems, with 230V~ power supply. The control offers the possibility to connect up to 8 channels, with a thermostat and up to 5 actuators each. Pump output with fixed delay time of 2.5 minutes, boiler control output and input for an external clock for the activation of the section of the actuators and thermostats.

TECHNICAL FEATURES

Power supply 230V~ ±10% 50Hz

Power absorption According to the loads rating

Illuminated switch On/Off

IP protection IP44

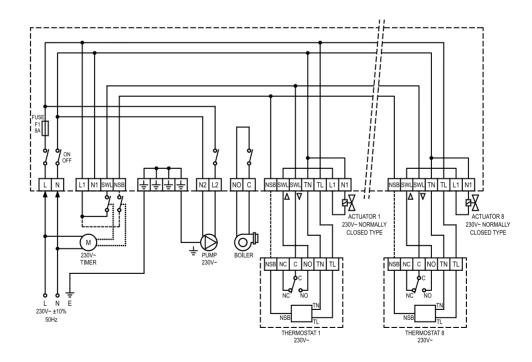
Contacts rating: Pump 5A@250V~ SPST Contacts rating: Boiler interlock 5A@250V~ SPST

Maximum applicable load:

Actuators and thermostats 1,25A each channel

2A total

Dimensions H125 W320 D67mm



ALCD08M02



8 CHANNELS WIRING BOX PUMP AND BOILER CONTROL 230V-24V

Electronic control for floor heating systems, with $230V\sim$ power supply. The control offers the possibility to connect up to 8 channels, with a thermostat $(24V\sim)$ and up to 5 actuators $(24V\sim)$ each. Pump output with fixed delay time of 2.5 minutes, boiler control output and input for an external clock for the activation of the section of the actuators and thermostats.

TECHNICAL FEATURES

Power supply 230V~ ±10% 50Hz

Power absorption According to the loads rating

Illuminated switch On/Off IP protection IP44 Pump output 230V~

Boiler interlock output Voltage free contact

Thermostats/actuators outputs $24V\sim$ Time prog. output (optional) $24V\sim$

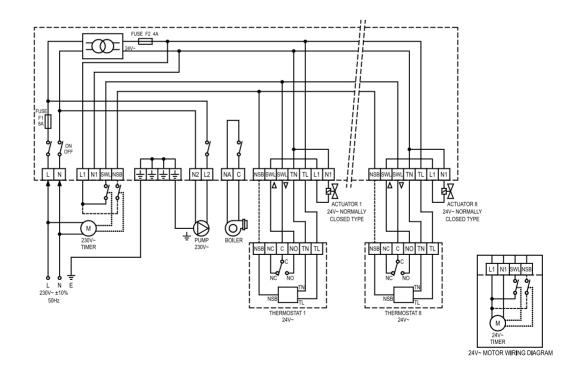
Contacts rating: Pump $5A@250V \sim SPST$ Contacts rating: Boiler interlock $5A@250V \sim SPST$

Maximum applicable load:

Actuators and thermostats 1A each channel

2A total

Dimensions H125 W320 D67mm



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ALP03U



8 CHANNELS WIRING BOX PUMP CONTROL 230V - 24V AND BOILER

Electronic control for heating floor systems. The control offers the possibility to connect up to 8 thermostats and 8 actuators with selectable power supply between 230V~ or 24V~. Pump output is available + boiler interlock, input for an external clock for the activation of the section of the actuators and thermostats.

TECHNICAL FEATURES

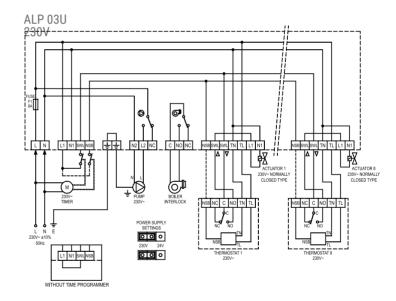
Power supply 230V ±10% 50Hz or 24V ±10% 50Hz

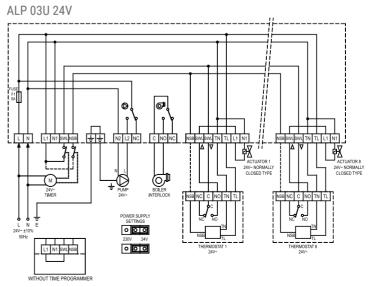
Power absorption Depends on the loads connected

Output:

Pump (powered) 5A @ 250V~ SPDT Boiler (voltage free) 1A @ 250V~ SPDT Actuators and thermostats 8x1A @ 250V~ Green LED indicator Power supply Red LED indicator Pump active IP protection IP30

Case ABS V0 self-extinguishing **Dimensions** H100 W245 D60mm





Catalog 2021 Rev.00

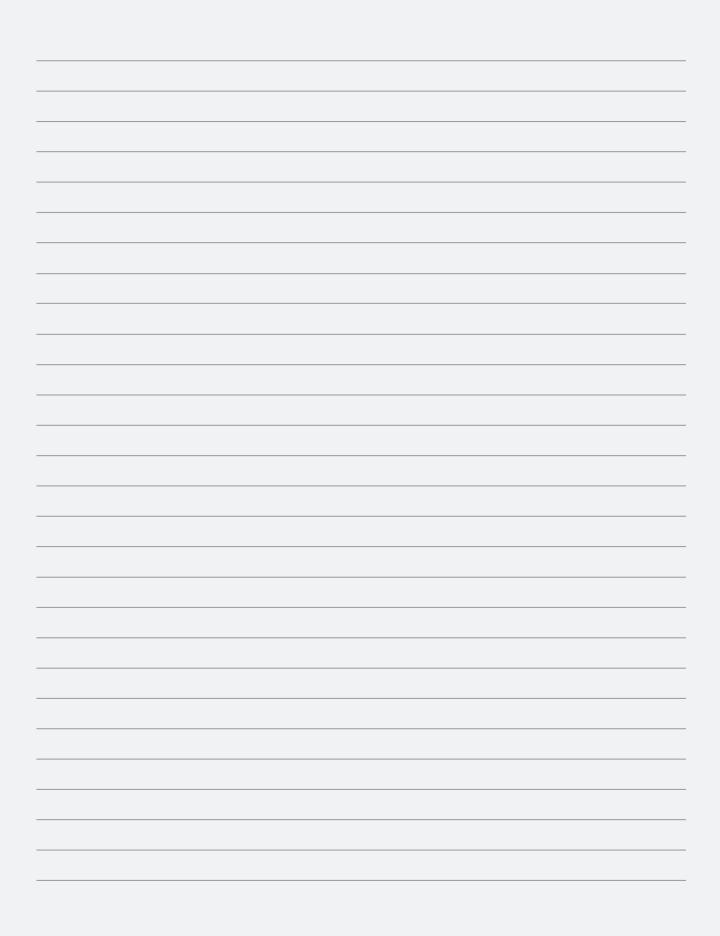
DIN RAIL MOUNTING KIT

ACKB01 for: DLP241, DLP841, ALCPxx, ALPxxx



ACKB02 for: ALCDxxx





WIRELESS SYSTEM



WIRELESS THERMOSTATS

FEATURES OF SEITRON RADIO THERMOSTATS SERIES

Seitron wireless range: technology and functionality at the highest levels

Seitron wireless solutions for thermoregulation enable to obtain high comfort performances thanks to their unique and unmatched simple installation and use.

In fact, whenever there may be difficulties in wiring installation to connect the thermoregulation devices between each other, a wireless solution (or via radio) allows to overcome them, keeping the same or even higher performances compared to the wired systems.

If in some circumstances the cable or radio technology is a customer's decision, sometimes the installation of a wireless system is the only possible choice, for example when the installation of wires and ducts over or inside the walls is not possible, for instance in buildings with a high artistic value or new plants that require the addition of regulation units. Furthermore, these systems are preferable in case of plants with frequent wall arrangement modifications, allowing therefore to avoid the continuous rebuild of the cable systems.

Being easy to be installed, Seitron wireless series is also an economic choice compared to the traditional cable systems that require a thermostat for each room, each of them wire-connected to the zone valve. In this case the main costs are due to the labour costs, that together with cables and ducts costs can reach the 70-90% of the overall cost. Even if the wireless solution may seem more expensive in terms of thermostats and receivers costs, on the other hand the costs for cables and ducts are equal to zero and the labour cost is more than halved. Thus the total installation cost of the wireless systems compared to the wired ones is significantly lower.

Featuring a modern and functional design, the new Seitron thermostats transmit a very low power radio signal – around 1mW – that lasts a few milliseconds, reducing any electromagnetic pollution risk. Also interference danger can be avoided: European standards require that frequencies of 868MHz can be used only on devices with intermittent and occasional transmission.

Seitron radio products are distinguished by the way the signal is transmitted:

MONODIRECTIONAL SYSTEM

In this system the transmission takes place in one single direction: from the transmitter (thermostat) toward the receiver (for example relay module). It is suitable for simple systems, e.g. point-to-point systems, however it doesn't allow to show on the wall-installed thermostat any setting that, in some occasions, can be managed by the system administrator, for instance set-point temperature or heating/cooling set-up.

BIDIRECTIONAL SYSTEM

In this system the transmission can occur in both directions: not only from the transmitter (thermostat) to the receiver (relay module) but also on the other way around. This possibility allows in some cases, e.g. in commercial environments (such as schools, hospitals, offices), to manage some settings in a remotely and 'centralized' mode, which will then be transmitted to the display of the thermostat mounted on the wall, thus informing the user in the most efficient way.

Economic, easy, safe, Seitron wireless thermoregulation systems represent the ideal choice for any occasion.

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Wireless KIT: Thermostat + Receiver (Pre-Paired)

KTR005

TRD02B + DRR01M



KIT VIA RADIO 2

Kit including one wireless thermostat and one single channel receiver with 1 output.

Chronothermostat and receiver already pre-paired at the factory, for even easier and faster installation.

Room temperature Probe STANP3

KCR005 DCD01B + DRR01M



KIT VIA RADIO 3

FREETIME plus

Kit including one wireless daily programmable thermostat and one single channel receiver with 1 output.

Chronothermostat and receiver already pre-paired at the factory, for even easier and faster installation.

Room temperature Probe STAD01

KCR006 DCW01B + DRR01M



KIT VIA RADIO 4

MAGICTIME plus

Kit including one wireless weekly programmable thermostat and one single channel receiver with 1 output.

Chronothermostat and receiver already pre-paired at the factory, for even easier and faster installation.

Room temperature Probe STA D01

FREETIME plus VIA RADIO

DCD01B



Battery powered digital programmable thermostat, heating/cooling modes, daily programming with pins for 2 adjustable temperature levels. Redundant data transmission, every 3 minutes. Control of pellet stoves and floor heating systems. Anti-frost function. Large backlit LCD display. Internal sensor and facility for remote sensor.

Daily

On/Off. PWM

TECHNICAL FEATURES

Programming Operation

Available set points 3 (comfort-economy-Off/anti frost)

Working range 5..35°C Adjustable hysteresis 0,1 .. 5,0°C

WIRELESS DAILY PROGRAMMABLE THERMOSTAT

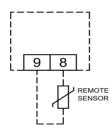
Internal sensor NTC (10k Ohm @ 25°C)

Input for an external sensor Configurable Max. distance from receiver 50 meters 868,150 MHz Transmission frequency Antenna type Internal

H87 W133 D32mm **Dimensions**

IV = 2.0%

Room temperature Probe STAD01



Class Reg.2013/811/EC

MAGICTIME plus VIA RADIO DCW01B



WIRELESS WEEKLY PROGRAMMABLE THERMOSTAT

Battery powered digital programmable thermostat, heating/cooling modes, up to 7 different programs with 48 time cycles per day and 3 temperature levels (Comfort, Economy, Off/Antifrost). Redundant data transmission, every 3 minutes. Control of pellet stoves and floor heating systems. Antifrost function. Holidays (1h ÷ 99dd.) and cleaning mode. Internal sensor and facility for remote sensor. Facility for switching on via telephone.

TECHNICAL FEATURES

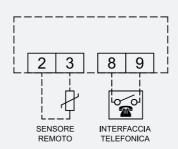
Operation On/Off, PWM Working range 10 .. 30°C Available time cycles per day 1..48 Adjustable hysteresis 0,1 .. 5,0°C

Internal sensor NTC (10k Ohm @ 25°C)

Input for an external sensor Configurable Max. distance from receiver 50 meters Transmission frequency 868,150 MHz Antenna type Internal

H87 W133 D32mm **Dimensions**

Class Reg.2013/811/EC IV = 2.0%



Room temperature Probe STAD01

TRD02B





Room temperature Probe STANP3

WIRELESS DIGITAL THERMOSTAT

Wireless thermostat with blue backlit LCD. It has several operating modes: comfort, economy, off/antifreeze. It is configurable by setting parameters: offset, hysteresis setpoint min. max. etc.. Internal sensor for room temperature and facility for remote sensor. Heating/Cooling selection can be managed by the thermostat or on the receiver. Limitation for final user intervention.

TECHNICAL FEATURES

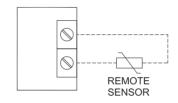
Working range 5 .. 35°C adjustable
Transmission frequency 868,150 MHz
Internal sensor NTC (4k7 @ 25°C)
External sensor (opt.) NTC (4k7 @ 25°C)

Max. distance from receiver > 50 meters (inside average buildings)

Data trasmission time 3 min/10 min
Antenna type Internal
IP rating IP30

Dimensions H85 W85 D23,6 mm

Class Reg.2013/811/EC IV = 2,0%



DTPF85BC

DTPF85BCT

Tamperproof







Room temperature Probe STAOP3

WIRELESS THERMOSTAT

Wireless thermostat for temperature regulation in domestic environment or offices to be combined with relevant receiver system. Internal sensor and input for remote sensor. Special pin stop system to optionally limit the setpoint knob range. Redundant radio command transmission with selectable time period. Heating/Cooling internal selection or manageable at receiver side. Possibility of regulation with economy managed at receiver side.

TECHNICAL FEATURES

Working range 6 .. 30°C
Transmission frequency 868,150 MHz
Internal sensor NTC (100k @ 25°C)
Red LED indicator Low battery

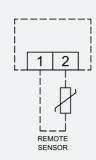
Max. distance from receiver 50 meters

(inside average buildings)

Data trasmission time 3 min/10 min
Antenna type Internal
IP rating IP30

Dimensions H85 W85 D28,5mm

Class Reg.2013/811/EC IV = 2,0%



DRR01M

1 output receiver





1-channel radio receiver, equipped with an integrated antenna and an SPDT relay output that can drive an actuator or a circulation pump or directly a boiler. Two-color LED for indicating the status of the output relay and the quality of the radio connection with the relative transmitter. Self-learning of the transmission code. Valid solution for all buildings where it is not convenient to take the cables from the thermostats to the heating plant.

TECHNICAL FEATURES

Power supply 230V~ ±10% 50Hz

Power absorption 11VA

Output (relay) 1 (x 6A) @ 250V~ Transmission frequency 868,150 MHz Antenna type Internal stylus

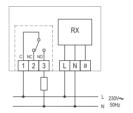
Bicolour LED indicator Active relay/ transmission quality

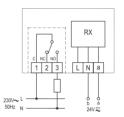
IP rating IP4X

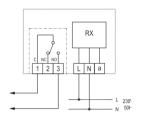
Dimensions H125 W78 D30,5mm

Class Reg.2013/811/EC IV = 2,0%









DRR02M

2 output receiver



RECEIVER 2 OUTPUT

2-channel radio receiver, equipped with an integrated antenna and two SPDT relay outputs that can drive an actuator or a circulation pump or directly a boiler. Suitable for 2-zone solutions. Two-color LED for indicating the status of the output relay and the quality of the radio connection with the relative transmitter. Self-learning of the transmission code. Also available hot / cold in sequence with neutral zone, selectable with internal jumper.

TECHNICAL FEATURES

Power supply 230V~ ±10% 50Hz

Power absorption 11VA

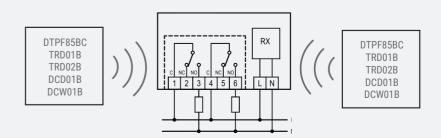
Output (relay) 2 (x 6A) @ 250V~ Transmission frequency 868,150 MHz Antenna type Internal stylus

Bicolour LED indicator Active relay/ transmission quality

IP rating IP4X

Dimensions H125 W78 D30,5mm

Class Reg.2013/811/EC IV = 2,0%



DRR42M

2 output receiver



2 CHANNELS RADIO RECEIVER FOR HOME AUTOMATION SYSTEMS

The receiver is able to get radio inputs from the Modbus® transceiver antenna (DA0421), featured with two SPDT relays outputs and two LEDs giving an indication about the status of the outputs and the quality of the radio signal. This system offers an optimal solution in buildings where it is not possible to physically wire the thermostat to the room which must be thermally controlled. By operating on the frequency of 868,150 MHz (LPD) it provides the user with the advantages of this bandwidth, such as the great immunity from radio disturbances and a greater efficiency of the radio signal range.

TECHNICAL FEATURES

230V 50Hz / 24V Power supply:

Absorption: 11VA

Relay contacts ratings: 2 x 6(4)A 250V (voltage free)

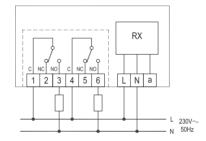
Frequency: 868,150 MHz Type of antenna: internal stylus

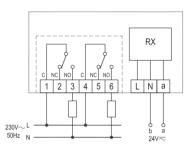
2 colors LED indicator: Active relay / transmission quality

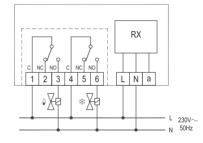
Protection rating:

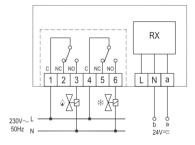
Dimensions: A125 L78 P30,5mm

Classe Reg.2013/811/CE: IV = 2,0%









DA0411





ACTIVE ANTENNA FOR DLP MODULES

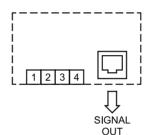
868,150 MHz receiving active antenna for DLP relay modules, equipped with a 5mt cable. It can be configured to make different jobs: Repeater: relays radio commands received by one or more wireless devices, for range problems in harsh environments or doubling the actual range. Receiver for home automation: this antenna can be connected to a pc or a home automation controller via RS485 bus, the home automation controller will get all the commands coming from wireless thermostats via proprietary protocol or MODBUS® RTU protocol. In case the device is used as a repeater or receiver and so it will not be connected to a DLP module, it will need a 12VDC external power supply.

TECHNICAL FEATURES

Transmission frequency 868,150 MHz
Bicolour LED indicator Active module/status

IP rating IP3

Power supply 6 .. 14 VDC (read txt)
Power absorption 80 mA max
Dimensions H85 W85 D31mm



DA0421





TRANSCEIVER ANTENNA FOR HOME AUTOMATION SYSTEMS

Connected to a pc or to a home automation hub, through RS485 bus, it allows to extend the inputs range coming from the radio thermostats, to the home automation hub through MODBUS® RTU protocol.

Unlike the DA0411, the DA0421 can also transmit actuation inputs to one or more DRR42M receivers which output relays can directly control the actuators, solenoid valves, automatic shutters, fans, etc.

A maximum of 32 DRR42M receivers can be controlled by a DA0421.

TECHNICAL FEATURES

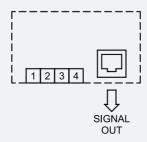
Power supply: 6..14 VDC (from data cable or terminals)

Absorption: 80mA max
Frequency: 868,150 MHz
Type of antenna: internal stylus

2 colors LED indicator: Active relay / transmission quality

Protection rating: IP30

Dimensions: A85 L85 P31mm



WIRELESS MONODIRECTIONAL - ANTENNAS AND RECEIVERS

RELAY MODULES DLP241M, DLP841M, DLP8412

The DLP are relay modules for driving electro-thermal actuator or other types in wireless heating or cooling systems for home or offices. They feature 2 (DLP241M) or 8 (DLP841M / DLP841D) independent channels which in turn can be linked up to a wireless thermostat or programmable thermostat.

The modules also feature an auxiliary relay to control a pump or a boiler. Every single thermostat periodically sends a radio signal to the DAPF84 active antenna, which sends through a data cable the information to the DLP module, which will turn on or off the actuator relay output linked to the thermostat.

The auxiliary relay is turned on when at least one of the actuator output is active, and can be used to drive the pump or the boiler. The modules have several LEDs on the frontal panel to indicate power on, output actuator status, auxiliary relay status; moreover the colour of the output actuator LEDs continuously shows the quality of the radio link with the relevant transmitter.

Configuration and testing of the system is extremely easy thanks to the self-learning function of the thermostat address.

It is possible to control with a night set back on any thermostat channel by associating it to a programmable thermostat channel. The modules feature a Heating/Cooling input and a Global Standby input.

Actuators are 230V~ supplied or can be supplied from an auxiliary voltage (i.e. 24V~), and both NC normally closed and NO normally open actuators can be driven.

The DLP241M can be connected in chain to a DLP841M module to form a 10 channels system with just one antenna or up to 10 DLP841M modules can be connected in chain to form an up to 80 zone multichannel system with just one antenna. DLP8412, 230 V powered, can drive directly 24 V electro thermal actuators.

This system is a valid solution for all those buildings where it is not convenient to lay down wires from the thermostats to the heating-cooling room, moreover it enables high flexibility in positioning thermostats in the room.







230V~ / 24V~ RELAY MODULES DLP

2 or 8 channels relay module and circulator pump output for heating/cooling plants.

DLP241M



2 CHANNELS RELAY MODULE + PUMP OUTPUT 230V

Two channels relay module for heating/cooling plants.

TECHNICAL FEATURES

Power supply 230V~ -15%+10% 50Hz

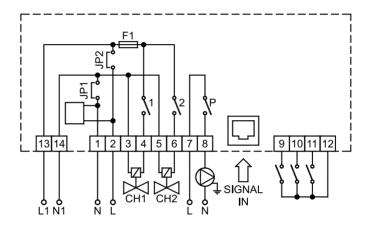
Power absorption 3W

Relay rating 2x3A @ 250V~ cosfi=1

Maximum total load current 6A IP rating IP30

Dimensions H100 W130 D60mm

Class Reg.2013/811/EC IV = 2,0%



DLP441M



4 CHANNELS RELAY MODULE + PUMP OUTPUT 230V

Four channels relay module for heating/cooling plants.

TECHNICAL FEATURES

Power supply 230V~ -15%+10% 50Hz

Power absorption 4W

Relay rating 4x3A @ 250V~ cosfi=1

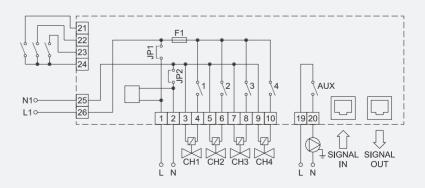
Maximun total load current 8A

Circulator relay rating 3A @ 250V~ cosfi=1 SPST

IP rating IP30

Dimensions H100 W245 D60mm

Class Reg.2013/811/EC IV = 2,0%



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DLP841M



8 CHANNELS RELAY MODULE + PUMP OUTPUT 230V

8 channels relay module for heating/cooling plants.

TECHNICAL FEATURES

Power supply 230V \sim -15%+10% 50Hz

3A @ 250V~ cosfi=1 SPST

Power absorption 4W

Relay rating 8x3A @ 250V~ cosfi=1

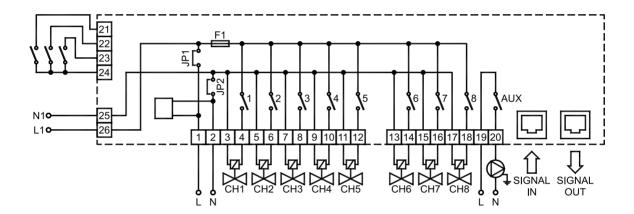
Maximun total load current 8A

Circulator relay rating

IP rating IP30

Dimensions H100 W245 D60mm

Class Reg.2013/811/EC IV = 2,0%



DLP8412



8 CHANNELS 24V MODULE + PUMP OUTPUT + BOILER INTERLOCK

Eight channels module for 24V low voltage heating/cooling plants. It is equipped with a high efficiency "green" AC/DC power supply to directly supply electrothermic actuators at 24Vdc.

This module can drive up to 14 electrothermic actuators with 24V 4W startup absorption.

The 8 outputs are overload and short circuit protected: in case of fault, the problem is signalled on the output LEDs.

The module features two auxiliary relay outputs to separately drive the pump and the boiler; a 230V pump can be directly wired.

TECHNICAL FEATURES

Power supply 90-264V~ 47-63Hz

Power absorption 2W (with DAPF84 connected)

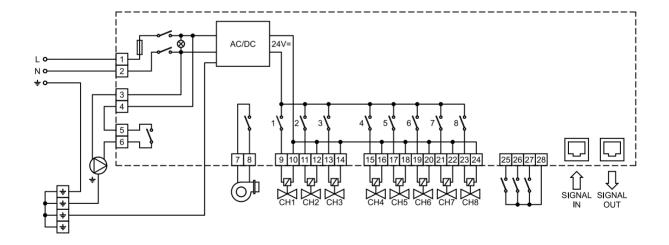
Relay rating pump and boiler 5A@250V~ cosfi=1
Output rating actuator 8x3A @ 24V=
Max total power output 63W

Max load number 14 (4W startup)

IP rating IP44

Dimensions H125 W320 D67mm

Class Reg.2013/811/EC IV = 2,0%



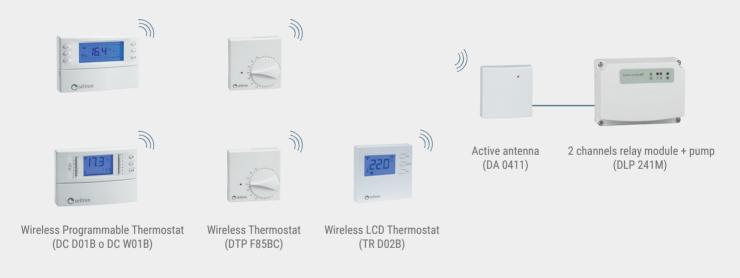
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Typical Wireless Designs

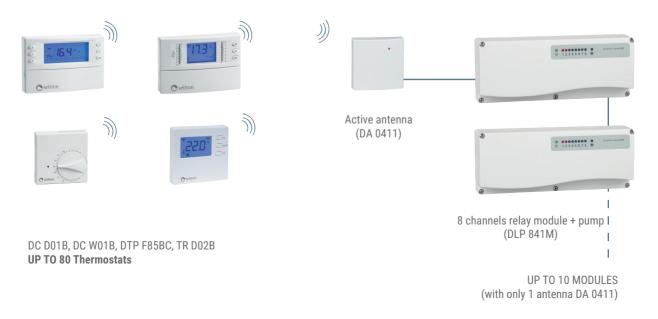
1 Zone installation with wireless Thermostat or programmable Thermostat



2 Zones installation with wireless prog. Thermostat or thermostat - day/night



Multizone installation with wireless prog. Thermostat or thermostat from 8 to 80 zone



92 Catalog 2021 Rev.00 www.seitron.com

RECEIVERS



Installation example with 6 wireless thermostats, one DA 0411 active antenna and one DLP 841 2 relay module.

Example of Wireless system managed by a PLC

The Seitron wireless products, developed for home automation systems, are an effective solution to provide buildings with BMS control systems (Building Management System) the regulation of heating and cooling systems, even if an arrangement for a proper electrical connection has not been made.

If it is not possible to make masonry works, the wireless Seitron products for home automation systems are helpful to connect the BMS control system to the different environments where it is necessary to regulate the temperature.

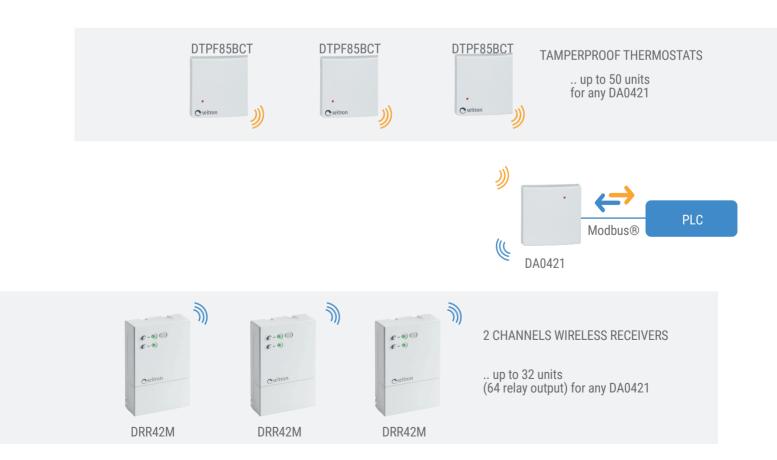
The system can be made up by:

- a receiver-transmitter DA0421.
- one or more wireless temperature sensors DTPF85BCT.
- one or more wireless receiver actuators DRR42M.

The DA0421 represents the range-extender interface of the BMS control system towards the Seitron wireless products ecosystem. It is a receiver-transmitter which acts as a gateway between the radio signals at 868 MHz and the commands on serial port with Modbus® RTU protocol. It can receive the temperatures data detected by several wireless sensors installed inside the different building rooms; every DA0421 can acquire up to 50 different room temperatures detected by as many wireless temperature sensors. The DA0421, moreover, can transmit actuating commands to one or several DRR42M receivers which output relays can directly control the actuators, solenoid valves, automatic shutters, fans, etc. A maximum of 32 DRR42M receivers can be controlled by a DA0421.

A PLC featured with a serial port with Modbus® RTU protocol acts as Master querying the DA0421, so the PLC acquires the temperature of the several rooms of the building, executing the regulation algorithms specifically for the type of system, decides how to pilot the different actuators, sends the actuators status calculated to the DA0421 which transmits what has been received via Modbus® to one or more DRR42M receivers which pilot the actuators. So it is possible to manage the thermoregulation for several rooms from one single spot without having special dedicated electrical wirings.

The DA0421 is featured with a self-learning procedure which can be performed by pressing the dedicated button or via Modbus® RTU command to pick up the temperature sensors. Moreover, it can activate a transmission channel and so a Test mode toward a DRR42M receiver. The test mode consists in a series of ON/ OFF commands every 2 seconds aiming to test the radio connection and to perform the self-learning procedure.



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WIRELESS MONODIRECTIONAL - BUILDING MANAGEMENT SYSTEM

TRD03B





Room Temperature probe STAD01

RADIO DIGITAL THERMOSTAT (BIDIRECTIONAL)

Wireless thermostat featuring an LCD screen with blue backlight. It has different operating modes: comfort, economy, off/antifreeze. Configurable by setting parameters: offset, hysteresis, setpoint min. max., ecc. Internal sensor for room temperature and predisposition for remote sensor connection. Summer/Winter selection by pressing a button. User setting can be limited. Featured with bidirectional wireless technology, when paired with a gateway DA0311, can be remotely managed, and so the operation modes, the setpoint temperatures, Summer/Winter selection can be remotely modified.

TECHNICAL FEATURES

Battery powered: 2 x 1.5V AA

Working range: 5 .. 35 ° C configurable

Frequency: 868.450 MHz

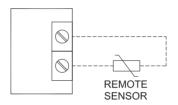
Internal / external sensor (opt.): NTC (10K @ 25 ° C)
Max distance from the receiver: > 50 m (x normal buildings)

Data transmission time: 1 .. 10 min (configurable)

Antenna type: Internal Protection degree: IP30

Dimensions: H85 W85 D23,6mm

Reg Class 2013/811 / CE: IV = 2.0%



DA0311





TRANSCEIVER ANTENNA FOR HOME AUTOMATION SYSTEMS

Transceiver antenna for home automation systems, featured with bidirectional wireless technology, it acts as gateway between radio inputs at 868 MHz and inputs on serial port with Modbus® protocol.

When it is connected to a pc or to a home automation hub, it allows to connect the automation hub with one or more TRD03B radio thermostats, making possible to remote control every radio thermostat.

A maximum of 50 thermostats can be managed by a DA0311.

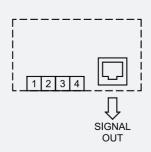
TECHNICAL FEATURES

Power supply: 6..14 VDC
Absorption: 80mA max
Frequency: 868,150 MHz
Type of antenna: internal stylus

2 colors LED indicator: Active relay / transmission quality

Protection rating: IP30

Dimensions: A85 L85 P31mm



Example of a bidirectional wireless system run by a BMS/PLC

Seitron wireless products for home automation are an efficient solution to equip the buildings with a BMS (Building Management System) control system for the management of heating and cooling installations, also when the needed electrical connections are missing. When structural modifications are not possible, Seitron wireless products for the home automation help with the connection between the BMS control system and the areas that require the thermoregulation.

The described system in this case study is made up with:

- One or more thermostats/wireless bidirectional probe TRD03B
- Antenna/gateway 868MHz <> Bidirectional Modbus® DA0311

DA0311 represent the BMS/PLC control system interface expansion towards Seitron wall-mounted bidirectional wireless thermostats. It is a transceiver acting as gateway between radio inputs 868MHz and inputs on serial port with protocol Modbus® RTU. It receives the parameters set in each wall-mounted thermostat TRD03B (room temperature, Set-Point, Heating/Cooling mode, battery status, radio signal intensity and so on) and it make them available on Modbus® in specific records that can be read or written by BMS or PLC system.

This system design allows to connect up to 50 TRD03B thermostats to one single antenna/gateway DA0311.

PLC or BMS system, equipped with serial port with Modbus® RTU protocol, acts as Master by questioning the DA0311 and by acquiring all parameters of the single devices on site, but, considering that the communication system is bidirectional, the Master can also write the values in dedicated Modbus® records in order to transfer these set-ups, via radio, to the wireless thermostats installed in the rooms.

This system allows then to get the complete control of a group of thermoregulation devices, not only for the acquisition of the information in the single rooms, but also to remotely and centrally set-up the single devices in order to show them on the thermostat display.

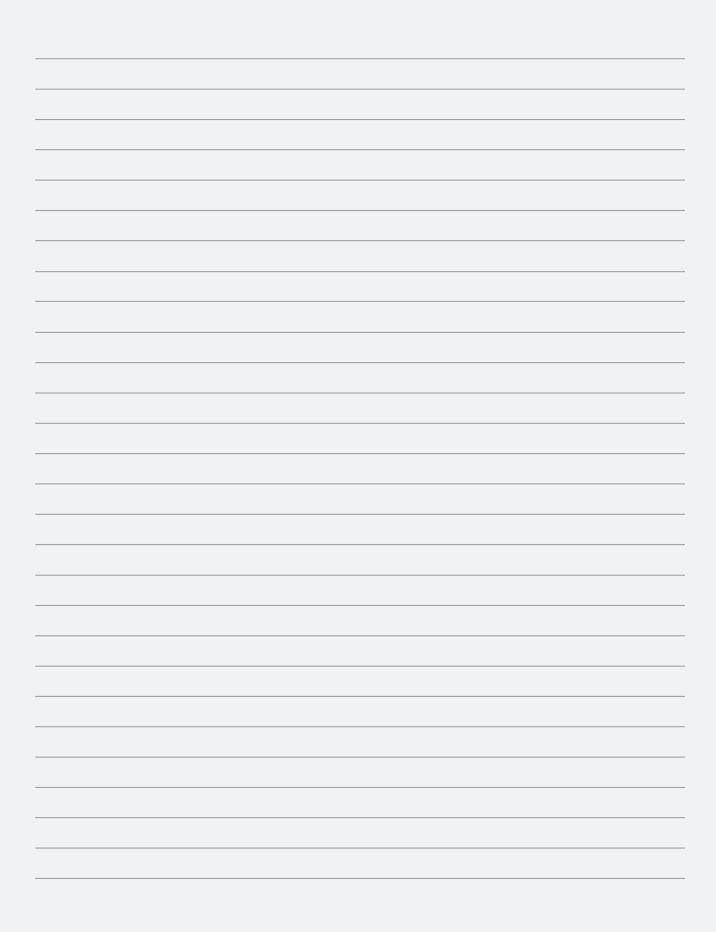
DA0311 has a self-learning procedure that can be activated by pressing the button or through Modbus® RTU input to connect the wall-mounted thermostats TRD03B. During this very simple operation, a control ON / OFF is emitted every 2 sec in order to test the radio connection and to confirm the coupling between the devices.





97

www.seitron.com Catalog 2021 Rev.00



FAN COIL THERMOSTATS



DIAMOND

SEITRON PRESENTS THE COMPLETE RANGE OF FAN COIL THERMOSTATS

Diamond New Line renews completely its design, while maintaining completeness and technological versatility. The New Line range consists of 10 different wall-mounted thermostats, 1 recessed-mounted thermostat and 2 power interfaces. Fan Coil thermostats are the result of 30 years of experience. The range offers from the simplest and cheapest devices up to the most sophisticated ones, reaching 32 digital programmable functions, suitable for driving 2 0-10 Vdc actuators and fan.

DIAMOND RANGE COMPARISON CHART

Codice	Power	LCD	3 Speed Selector	Summer Winter	On Off	Fan Thermostat	Valves Thermostat	Program- mable Special Functions
TFD01M	230V/24V	No	Manual	Manual	Manual	On-Off	2 On-Off	No
TFM01M	230V/24V	No	Auto Manual	Manual	Manual	On-Off	2 On-Off	No
TFA01M	230V/24V	No	Manual	Manual	Manual	On-Off 010V	2 On-Off	No
TFF01M	230V/24V	Si	Auto Manual	Manual Auto Remote	Adjustable Manual	On-Off	2 On-Off PWM a 3 punti	Si
TFZ01M	230V/24V	Si	Auto Manual	Manual Auto Remote	Adjustable Manual	On-Off 010V	2 010V	Si

100 www.seitron.com Catalog 2021 Rev.00

TFD01M 230V~



Room Temperature Probe STLD01

ELECTRONIC FAN COIL THERMOSTAT

Thermostat with cooling/off/heating switch and fan speed slide selector. Fan can be either controlled by thermostat or always running. Facility for external temperature probe and for a bimetal thermostat for the "cutoff thermostat" function. By means of the mechanical pins the angle of rotation of the knob can be limited.

TECHNICAL FEATURES

Power supply 230V~ -15/+10% 50/60Hz (TFD01M)

24V~ -15/+10% 50/60Hz (TFD012)

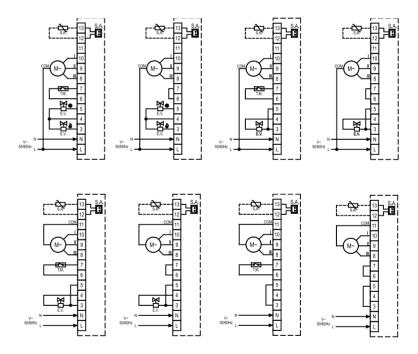
Working range $5...35^{\circ}$ C Differential $< 0.5^{\circ}$ C

Internal sensor NTC (10k 0hm @ 25° C) Output (relay) 5(1)A @ $250V \sim SPDT$

Slide switch 1 3 speeds

Slide switch 2 Heating/off/cooling Dimensions H87 W132 D37mm

IP rating IP20 Class Reg.2013/811/EC I = 1,0%



Notes: In order to select the external or internal sensor mode, a jumper is located on the p.c. board. The remote NTC sensor is to be ordered separately (i.e.: STLD01).

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TFM01M

230V~



Room Temperature Probe STLD01

ELECTRONIC FAN COIL THERMOSTAT

Electronic thermostat with heating/off/cooling selector and manual or automatic three-speed selector. Operation with 2 or 4 tubes and antistratification function. Operation with internal sensor, remote sensor or with "cutoff thermostat". Input for connecting a window contact.

By means of the mechanical pins the angle of rotation of the knob can be limited.

TECHNICAL FEATURES

Power supply 230V~ -15/+10% 50Hz (TFM01M)

24V~ -15/+10% 50Hz (TFM012)

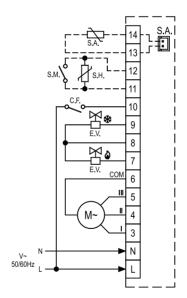
Working range 5.. 35°C

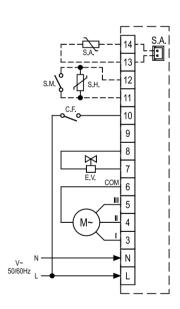
Internal sensor NTC (10k Ohm @ 25°C)

Differential < 0.5 °C
Slide switch 1 I / II / III / auto
Slide switch 2 Cooling/off/heating
Output (relay) 3(1)A @ 250V~ SPDT
Dimensions H87 W132 D37mm

IP rating IP30

Class Reg.2013/811/EC V = 3,0%





102 Catalog 2021 Rev.00 www.seitron.com

TFF01M



Room Temperature Probe STLD01

FAN COIL DIGITAL THERMOSTAT

Digital configurable thermostat with automatic or manual fan speed selection. Manual, automatic or centralised heating/cooling with an external input selection; dead band function and changeover based on supply water. Possibility to control valves or fan or both.

LCD showing all set functions. Suitable for On/Off, PWM, Floating actuators, resistor and heat pump control. Special functions: Economy, Dirty Filter Warning, Window contact. Facility for remote sensor and supply water pipe sensor.

TECHNICAL FEATURES

230V~ -15/+10% 50Hz or Power supply

230V~ ±10% 60Hz or 24V~ -15/+10% 50/60Hz

Working range Adjustable: 5.. 35°C Internal sensor NTC (10k Ohm @ 25°C)

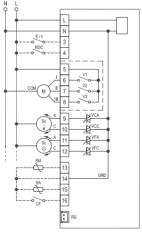
Outputs (N.O. relay): 3x fan speed 3A @ 230V ~ Outputs: 4x valves 4x0,3A (cosfi=1)

(on/off or floating), servomotor, electric heater and heat pump

Speed control Automatic/manual Differential 0.2 .. 1.0°C

LCD display Multifunction **Dimensions** H87 W132 D23,6mm

IP rating IP30 Class Reg. 2013/811/EC V = 3.0%



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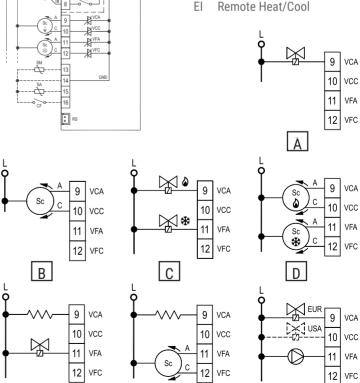
Opens

С Closes

Sc Floating actuator SA Room sensor

SM Supply water sensor

Remote Heat/Cool



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103

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TFZ01M



Room Temperature Probe STLD01

FAN COIL DIGITAL THERMOSTAT DRIVING 0-10V FOR MOTORIZED VALVES AND FAN

Digital configurable thermostat like TFF01M, but suitable for driving of 0-10V actuators. Driving of fan motor via 3 relays or proportional via 0-10V signal. Possibility to supply the fan motor with $230V\sim$, thermostat and actuators with $24V\sim$. Temperature indication in °C or °F.

TECHNICAL FEATURES

Working range

Power supply 230V~ -15/+10% 50Hz or

230V~ ±10% 60Hz or 24V~ -15/+10% 50/60Hz Adjustable: 5 .. 35°C

Internal sensor NTC (10k 0hm @ 25°C)
Proportional outputs 0 .. 10 Vdc

Speed control Automatic/manual
Differential 0.2 .. 1,0°C
LCD display Multifunction
Dimensions H87 W132 D23.6mm

IP rating IP30 Class Reg.2013/811/EC V = 3,0%

JP2 230/24V~ selection

V Heat 0..10V heating signal output
V Cool 0..10V cooling signal output
V Fan 0..10V fan signal output
Heat Heating valve output
Cool Cooling valve output

E/I Remote input to activate "centralised Heating/Cooling" function

RDC Remote input to activate "Economy" function

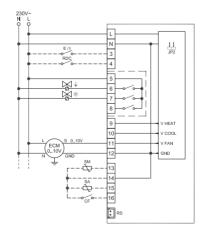
M Fan motor

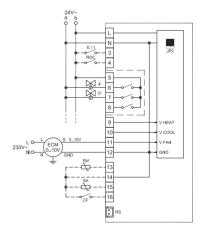
Sc 0..10V Floating actuator S.M. Supply water sensor

S.A. Room sensor

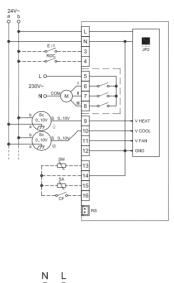
CF Remote input to activate "Window contact" function
RS Connector for remote room temperature sensor connection.

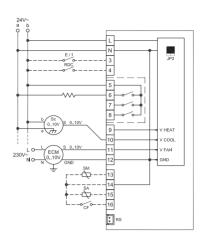
See "Electric connections"

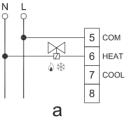


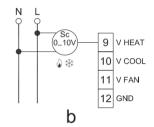


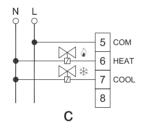
104 Catalog 2021 Rev.00 www.seitron.com

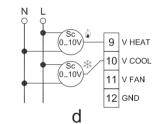


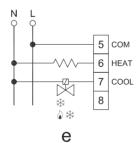


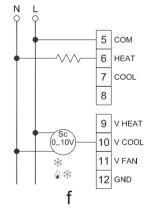


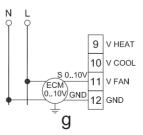


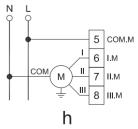












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DIAMOND new line

TFA01M



ANALOG FAN COIL THERMOSTAT 230Vac or 24Vac

Analog regulator for fan-coils with 0..10 Vdc output for proportional drive of fans equipped with E.C. motor. Combined temperature sensor (internal or external). Four positions fan speed switch, with range selectable through internal trimmers. Power supply: 230Vac or 24Vac selectable with internal jumpers. Fan and valves operation selectable with internal jumpers.

TECHNICAL FEATURES

Power supply 230V~ -15/+10% 50/60Hz (TFD01M) 24V~ -15/+10% 50/60Hz (TFD012)

Working range 5 .. 35°C Differential < 0.5 °C

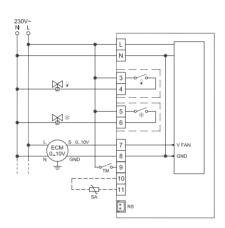
Internal sensor NTC (10k 0hm @ 25°C) Output (relay) 5(1)A @ 250V~ SPDT

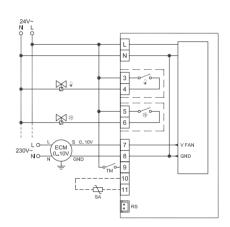
Slide switch 1 4 speeds

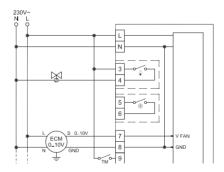
Slide switch 2 Heating/off/cooling Dimensions H87 W132 D37mm

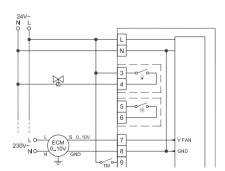
IP rating IP20 Class Reg.2013/811/EC V = 3,0%

Room Temperature Probe STLD01





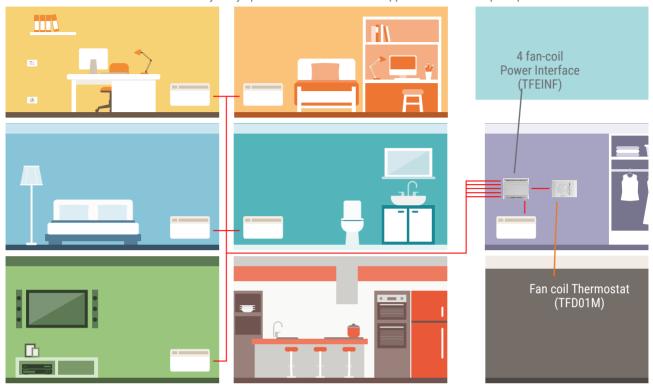




POWER INTERFACE

This unit, which is not a thermostat, performs the useful function of controlling up to 4 fan coils in parallel starting from a single thermostat, for example by a TFD01M.

The device has on board all the necessary relays power. The most common application is in the open spaces.



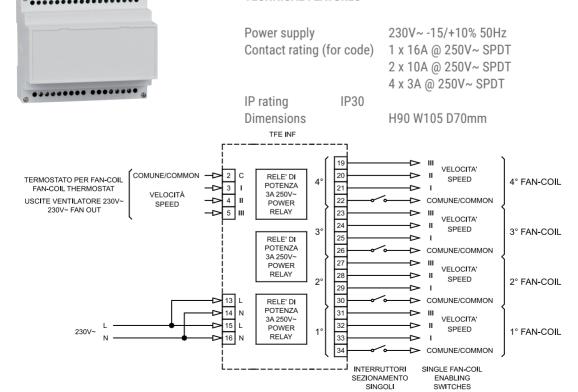
TFEINF

3 relays for 4 motors (3A)

FAN COILS POWER INTERFACE

Power interface: it allows driving up to 4 fan-coils through a single thermostat. 6 modules case for DIN rail mounting.

TECHNICAL FEATURES



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SWITCHES

TTM003MI



STRAP-ON MICROTHERMOSTAT

Strap-on microthermostat on-off N.O., working temperature: @ 42° C \pm 3.5°C, breaks @ 31° C. Supplied with 200 mm cable, faston and terminals.

TECHNICAL FEATURES

Sensor type Bimetallic Accuracy $\pm 3,5^{\circ}\text{C}$

Contacts rating 10(1,66)A @ 250V~ n.a. Dimensions H30,3 W20,8 D19,3mm

IFMEI1M



REMOTE CONTROL FOR FAN-COIL

Remote control for fan-coils with 3-speed slide switch and heating/off/cooling switch.

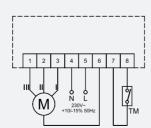
TECHNICAL FEATURES

Power supply 230V \sim -15/+10% 50Hz Contact rating 5A @ 250V \sim Slide switch 3 speeds

Slide switch Heating/off/cooling

IP rating IP30

Dimensions H80 W79 D37mm



RESIDENTIAL GAS DETECTORS



RESIDENTIAL GAS LEAK DETECTORS

Seitron designs and manufactures gas detectors for civil or domestic use since more than twenty years. From the beginning the choice was limited to 3 gases (2 explosive gases, methane and LPG, and 1 toxic gas, carbon monoxide - CO) and to produce gas leak detectors that deliver the maximum guarantees to those who use them for their own safety:

- Only detectors with acoustic alarm
- Relay output to activate normally closed (N.C.) and normally open (N.O.) electrovalve
- Only detectors powered with 230V mains voltage

DEFEND AGAINST DANGEROUS CARBON MONOXIDE (CO) POISONING

Carbon monoxide (CO) has been named the silent killer: it is odorless, colorless and tasteless. It is also slightly less dense than air, so it tends to accumulate slowly in the upper part of the rooms. Its most dangerous characteristic is that humans cannot detect its presence without proper testing. The most insidious fatal cases concern people who fall asleep with a slight headache and never wake up again. This should make clear to all the usefulness of CO alarms.

BEAGLE & SEGUGIO COMPARISON CHART

FEATURES	BEAGLE	SEGUGIO
Zone Number	1	2
Natural Gas	RGDME5MP1R, RGDME5MP1T	RGDMETMP1R
LPG	RGDGP5MP1R, RGDGP5MP1T	RGDGPLMP1R
CO	RGDCK5MP1S, RDCBA1	RGDCOKMP1
Kit With 3/4" Gas Electrovalve (NO/NC)	✓	✓
Power Supply	230 V~	230 V~
Acoustic Alarm	✓	✓
Output for 230V~ Gas Ev	✓	✓
Output for 12V= Gas Ev	-	✓
Sensor Life	5 Years	5 Years
Precalibrated replaceable sensor	✓	✓
Instrument Warranty	3 Years	3 Years
Alarm Test Button	✓	✓
Yellow LED for Fault Alarm	✓	✓
Red LED for Gas Alarm	✓	✓
Green LED for Working Unit	✓	✓
Dimensions	L85 x A107 x P38 mm	L148 x A84 x P40 mm

BEAGLE plus **METANO**

RGDME5MP1R

RGDME5MP1T

with 2m cable and plug







GAS LEAKAGE DETECTOR - METHANE -

Domestic methane gas detector with output for driving 230V \sim cut-off valves. Test button. In compliance with CEI-EN 50194-1 standard.

IMQ quality mark and compliance with CEI-EN 50194-1certify the absolute reliability and efficiency of the device. Precalibrated sensor, directly replaceable by user.

Pre-calibrated sensor (ACMM01), replaceable directly by the user.

TECHNICAL FEATURES

Power supply 230V~ -15/+10% 50Hz Sensor type Sn02 Semiconductor

Precalibrated sensor, directly replaceable by user

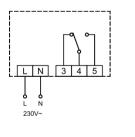
Alarm threshold 10% L.E.L.

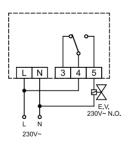
Output (relay) 5(2)A @ 250V~ SPDT

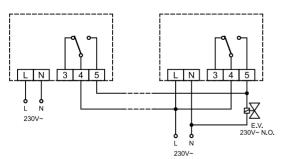
Sensor life 5 years
Green LED indicator Detector active
Yellow LED indicator Detector failure

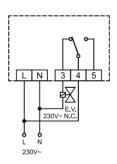
Red LED indicator Alarm IP rating IP42

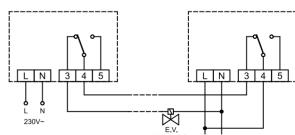
Dimensions H107 W85 D38mm











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BEAGLE plus GPL

RGDGP5MP1R

RGDGP5MP1T

with 2m cable and plug







GAS LEAKAGE DETECTOR - LPG -

Domestic LPG gas detector with output for driving 230V~ cut-off valves. Test button. In compliance with CEI-EN 50194-1 standard. IMQ quality mark and compliance with CEI-EN 50194-1 certify the absolute reliability and efficiency of the device. Precalibrated sensor, directly replaceable by user.

Pre-calibrated sensor (ACMG01), replaceable directly by the user.

TECHNICAL FEATURES

Power supply $230V \sim -15/+10\% 50Hz$ Sensor type Sn02 Semiconductor

Precalibrated sensor, directly

replaceable by user

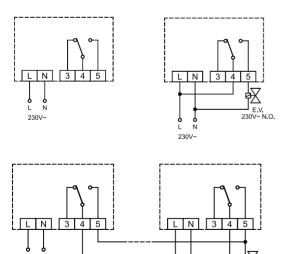
Alarm threshold 10% L.E.L.

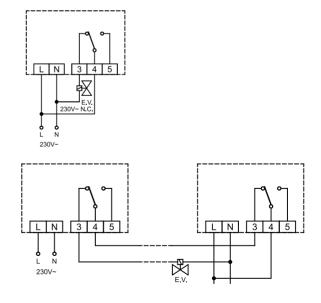
Output (relay) 5(2)A @ 250V~ SPDT

Sensor life 5 years
Green LED indicator Detector active
Yellow LED indicator Detector failure

Red LED indicator Alarm IP rating IP42

Dimensions H107 W85 D38mm





____E.V. 230V~ N.O.

BEAGLE CO BUILD UP TECNOLOGY

RGDCK5MP1S

RDCBA1

with 2m cable and plug





GAS LEAKAGE DETECTOR - CO -

Microprocessor based domestic carbon monoxide detector with output for cut-off valves, fans or any other electrical actuators with 230V power supply. Carbon monoxide detection with accumulation mode: it simulates the gas accumulation in the human body according to standard EN 50291-1.

Pre-calibrated sensor (ACMC01), replaceable directly by the user.

TECHNICAL FEATURES

Power supply 230V~ -±10% 50Hz

Internal sensor Precalibrated chemical cell on module,

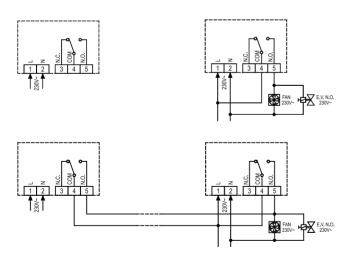
directly replaceable by user

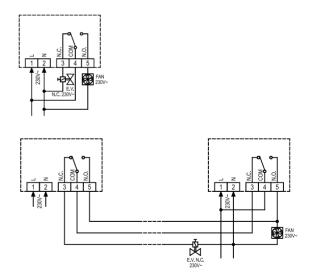
First alarm threshold ~30ppm CO lasting for >120 minutes

Output (relay) 5(2)A @ 250V~ SPDT
Button Test/Alarm reset
Alarm Buzzer Buzzer 85dB(A)@ 1m
Green LED indicator Detector active
Yellow LED indicator Detector failure

Red LED indicator Alarm IP rating IP42

Dimensions H107 W85 D38mm





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BEAGLE DOUBLE

RGDCM0MP1



GAS LEAKAGE DETECTOR - METHANE AND CO -

Domestic methane (CH4) gas and carbon monoxide (CO) detector with facility for driving $230V\sim$ cut-off valves or fans. Test button. Not compliant with EN 50291.

TECHNICAL FEATURES

Power supply 230V~-15/+10% 50Hz
Sensor type Sn02 Semiconductor
Alarm threshold 10% L.E.L. CH4 80ppm CO
Output (relay) 5A @ 250V~ SPDT

Sensor life 5 years
Green LED indicator Detector active
Yellow LED indicator Detector failure

Multicolor LED indicator red: CH4 alarm - blue: CO alarm - red-blue: both

IP rating IP42

Dimensions H107 W85 D38mm

KIT BEAGLE METANO

KD M5R 00021 Kit with N.O. electrovalve KD M5R 00022

Kit with N.C. electrovalve





Kit including 1 BEAGLE METHANE (RGDME5MP1R) gas detector with 230V~ power supply, 1 230V~ cut-off valve (EVGPAFM020 N.O. - EVGPCFM020 N.C.) with manual reset, 2 x 3/4" to 1/2" nipples.

Pre-calibrated sensor (ACMM01), replaceable directly by the user.

KIT BEAGLE GPL

KD G5R 00019 Kit with N.O. electrovalve KD G5R 00020 Kit with N.C. electrovalve





Kit including 1 BEAGLE LPG (RGDGP5MP1R) gas detector with 230V \sim power supply, 1 230V \sim cut-off valve with manual reset (EVGPAFM020 N.O. - EVGPCFM020 N.C.), 2 x 3/4" to 1/2" nipples.

Pre-calibrated sensor (ACMG01), replaceable directly by the user.

WIRED RESIDENTIAL DETECTION SYSTEM

This system uses the Beagle or Segugio wired version gas detectors.

The gas detectors installed in each apartment are connected to one or more concentrators positioned on the floor.

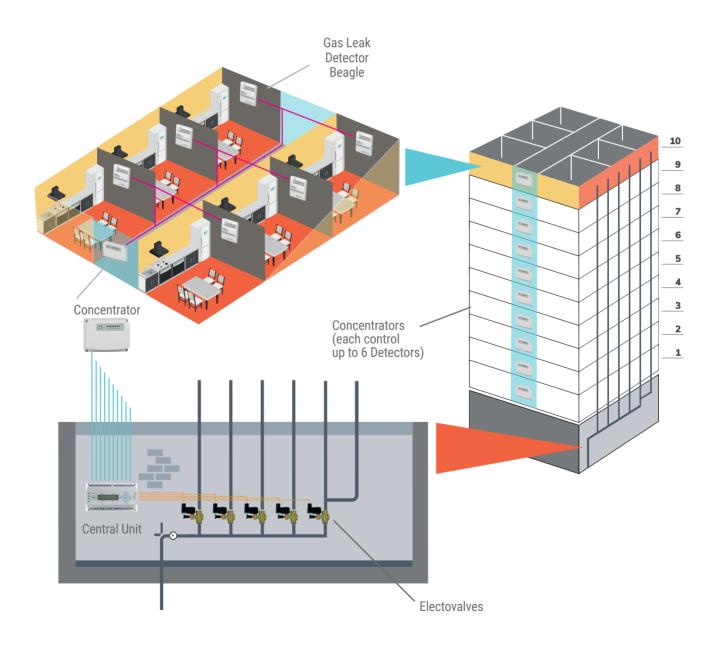
Each concentrator can receive eight different alarms. Each concentrator, can be connected with the MOD BUS system (2 wires) to the next, and all the concentrators can transmit the alarms received from the single apartment to a control unit (normally located in a service room on the ground floor) The control unit can be connected to 32 concentrators for a total of 256 apartments or 4 zones of up to 8 concentrators each.

Each zone is combined at a relay that closes the gas solenoid valve of that area if an alarm go on (each zone could refer to a building scale).

On the control unit display it is possible to display:

- Gas leak alarm:
- Failure:
- Lack of tension

For each of these events it is possible to identify the detector that generated the alarm (therefore the apartment number), the concentrator to which it is connected, the time and the date on which the alarm occurred.



www.seitron.com Catalog 2021 Rev.00

RYB01M 4 zone 256 output Control Unit



MODBUS® CONTROL UNIT 4 ZONES AND UP TO 256 INPUTS (WITH ACIM01)

Central Unit for gas detection system in apartment buildings.

The unit, which interfaces with the ACIM01 concentrator modules via Modbus® is able to acquire the status of n. output relay contacts of domestic gas detectors. Microcontroller circuit and backlit LCD display 16x2 characters.

DIN rail mounting 8 modules. It allows to control up to 32 concentrators type ACIM01. 4 + 1 output relays with "column" management. Installer parameter management protected by password.

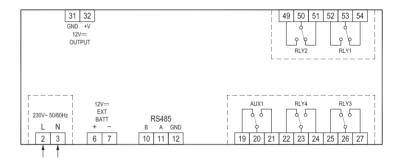
TECHNICAL FEATURES

Power supply: 230Vac 50/60 Hz
Outputs: 5 x 8 A @ 250V SPDT

1 ..4: Column gas cut-off valve control

5: Common auxiliary function

Physical layer: RS485
Settings: 9600, 8, N, 1
Communication protocol: Modbus® RTU



ACIM01

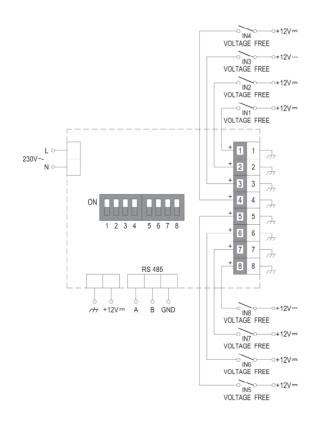


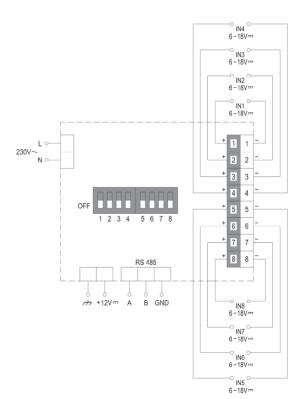
CONCENTRATOR MODULE 8 INPUTS FOR GAS DETECTION SYSTEM

Modbus® interface module with 8 optoisolated inputs. 230Vac power supply The inputs are able to accept voltages in the range indicated in Technical Specifications. Setting of the address of the module from 01 to 32 by means of rotary switches.

TECHNICAL FEATURES

Power supply: 230Vac 50/60 Hz
Inputs: 8 optoisolated
Range Vin: 10.8V .. 26.4V
Physical layer: RS485
Settings: 9600, 8, N, 1
Communication protocol: Modbus ® RTU





www.seitron.com Catalog 2021 Rev.00 117

SEGUGIO plus METANO

RGDMETMP1R





GAS LEAKAGE DETECTOR - METHANE -

Microprocessor based domestic methane gas detector with output for both 230V~ and 12V~/= cut-off valves. Test function. Precalibrated sensor, directly replaceable by user.IMQ quality mark and compliance with CEI-EN 50194-1 certify the absolute reliability and efficiency of the device.

Pre-calibrated sensor (ACMM01), replaceable directly by the user.

TECHNICAL FEATURES

Power supply 230V~ ±10% 50Hz Output (relay) 6(2)A @ 250V~ SPDT Sensor type Sn02 Semiconductor

Precalibrated sensor, directly replaceable by user

Sensor life 5 years Alarm threshold 10% L.E.L. Green LED indicator Detector active Yellow LED indicator Detector failure

Red LED indicator Alarm

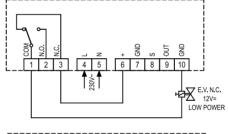
85dB (A) @ 1m Alarm buzzer

IP rating IP42

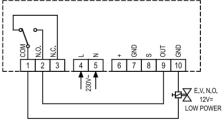
Dimensions H84 W148 D40mm

Product mark IMQ

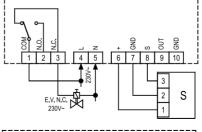
Notes: (1) Facility for a remote sensor (SGA ***), for the control of a further zone. Depressed button test for one sec.: it silences the buzzer for 10 minutes; depressed for at least 5 sec.: checks all internal functions and electrovalve activation.



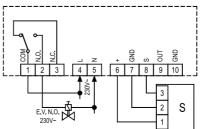
12V~/= NORMALLY **CLOSED LOW** CONSUMPTION **ELECTROVALVE**



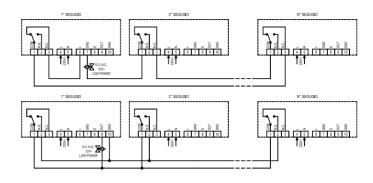
12V~/= NORMALLY OPEN LOW CONSUMPTION **ELECTROVALVE**



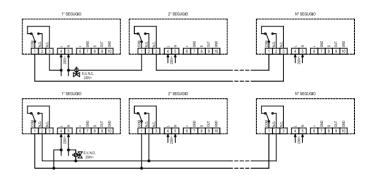
230V~ NORMALLY CLOSED **ELECTROVALVE AND** REMOTE SENSOR



230V~ NORMALLY OPEN **ELECTROVALVE AND** REMOTE SENSOR



EXAMPLES OF WIRING DIAGRAM WITH SEVERAL SEGUGIO DETECTORS AND ONE SINGLE 12 V ELECTROVALVE



EXAMPLES OF WIRING DIAGRAM WITH SEVERAL SEGUGIO DETECTORS AND ONE SINGLE 230V~ ELECTROVALVE

Notes: (1) The remote sensors to be used are: SGA MET, SGA GPL.

THRESHOLD SEGUGIO CO RGDCOHMP11



GAS LEAKAGE DETECTOR - CO -

Microprocessor based domestic carbon monoxide detector with output for cut-off valves, fans or any other electrical actuators with 230V~ power supply. Carbon monoxide detection with threshold mode. Not compliant with EN 50291.

TECHNICAL FEATURES

230V~ -15/+10% 50Hz Power supply Output (tight relay) 6(2)A @ 250V~ SPDT Internal sensor(1) Electrochemical cell Button Alarm Test-Reset Alarm Buzzer 85dB(A) @ 1m Pre alarm threshold 16ppm Alarm threshold 80ppm Green LED indicator Detector active

Detector failure Yellow LED indicator Red LED indicator

Dimensions H84 W148 D40mm

IP rating IP42

www.seitron.com Catalog 2021 Rev.00

119

Alarm

SEGUGIO plus GPL

RGDGPLMP1R





GAS LEAKAGE DETECTOR - LPG -

Microprocessor based domestic LPG gas detector with output for both 230V~ and 12V~/= cut-off valves. Test function. Precalibrated sensor, directly replaceable by user. IMQ quality mark and compliance with CEI-EN 50194-1 certify the absolute reliability and efficiency of the device.

Pre-calibrated sensor (ACMG01), replaceable directly by the user.

TECHNICAL FEATURES

Power supply 230V~ ±10% 50Hz Output (relay) 6(2)A @ 250V~ SPDT Sensor type Sn02 semiconductor

Precalibrated sensor, directly replaceable by user

Sensor life 5 years Alarm threshold 10% L.E.L. Green LED indicator Detector active Yellow LED indicator Detector failure

Red LED indicator Alarm

Alarm buzzer 85dB (A) @ 1m

IP rating IP42

Dimensions H84 W148 D40mm

Notes: (1) Facility for a remote sensor (SGA ***), for the control of a further zone. (2) Depressed button test for one sec.: it silences the buzzer for 10 minutes; depressed for at least 5 sec.: checks all internal functions and electrovalve activation. (3) Back-up battery: ACC SGB 6A.

SEGUGIO CO ACCUMULO RGDCOKMP1



GAS LEAKAGE DETECTOR - CO -

Microprocessor based domestic carbon monoxide detector with output for cut-off valves, fans or any other electrical actuators with 230V~ power supply. Carbon monoxide detection with accumulation mode: it simulates the gas accumulation in the human body according to standard EN50291.

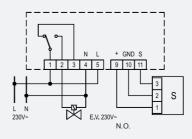
TECHNICAL FEATURES

230V~ -15/+10% 50Hz Power supply Output (tight relay) 6(2)A @ 250V~ SPDT Electrochemical cell Internal sensor(1) Button Alarm Test-Reset Alarm Buzzer 85dB(A) @ 1m Green LED indicator Detector active Yellow LED indicator Detector failure

Red LED indicator Alarm

Dimensions H84 W148 D40mm

IP42 IP rating



Notes: (1) Facility for a remote sensor (SGA ****), for the control of a further zone. (2) Depressed button test for one sec.: it silences the buzzer for 10 minutes; depressed for at least 5 sec.: checks all internal functions and electrovalve activation. (3) The remote sensor to be used are: SGA MET, SGA GPL.

120 www.seitron.com Catalog 2021 Rev.00

SEGUGIO DOUBLE

RDXSM1



GAS LEAKAGE DETECTOR - METHANE + CO

Microprocessor based domestic methane and carbon monoxide detector equipped with two separated output relays with output for driving $230V\sim$ cut-off valves. Sensors assembled on precalibrated modules replaceable by user. Carbon monoxide detection with accumulation mode: it simulates the gas accumulation in the human body according to standard EN 50291-1. Methane detection according to standard EN 50194-1.

Pre-calibrated sensor (ACMC01 CO, ACCM01 METANO), replaceable directly by the user.

TECHNICAL FEATURES

Power supply 230V~ ±10% 50Hz

CH4 sensor type Sn02 semiconductor. Precalib. sensor,

directly replaceable by user

CO sensor type Precalibrated sensor on module

replaceable by user

CH4 Alarm threshold 10% L.E.L.

First CO alarm threshold ~30ppm CO lasting for >120 minutes

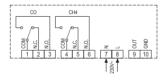
Output (relay) 5(2)A @ 250V~ SPDT

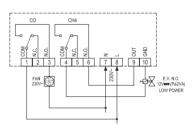
CH4 sensor life 5 years

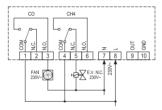
Alarm Buzzer 85dB(A)@ 1m Green LED indicator Detector active Yellow LED indicator Detector failure

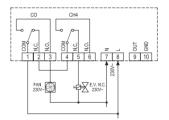
Red LED indicator Alarm IP rating IP42

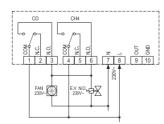
Dimensions H84 W148 D40mm

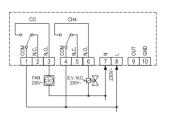


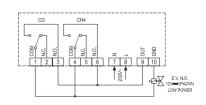






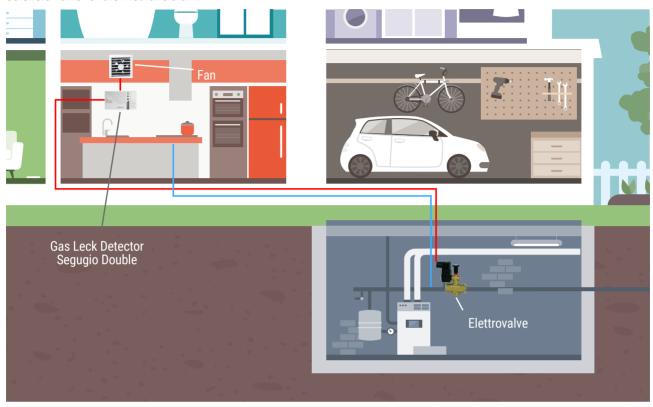






GAS DETECTORS FOR RESIDENTIAL USE

Example of installation of the SEGUGIO DOUBLE that simultaneously controls a fan for the carbon monoxide alarm and a solenoid valve for the methane alarm.



KIT SEGUGIO METANO

KDMER00014

Kit with N.O. 230V electrovalve

KDMER00015

Kit with N.C. 230V electrovalve

KDMER00008

Kit with N.O. 12 V low power electrovalve

KIT SEGUGIO METHANE

Kit including SEGUGIO METHANE (RGDMETMP1R) gas detector with 230V~ power supply, 1 230V~ or 12V~ cut-off valve (EVGPAFM020 N.O. 230V - EVGPCFM020 N.C. 230V - EVGBAF1020 N.O. 12V) with manual reset, 2 x 3/4"to 1/2" nipples.





KIT SEGUGIO GPL

KDGPR00017

Kit with N.O. 230V electrovalve

KDGPR00018

Kit with N.C. 230V electrovalve

KDGPR00016

Kit with N.O. 12V low power electrovalve

KDGPR00002

Kit with N.C. 12 low power electrovalve

KIT SEGUGIO LPG

Kit including SEGUGIO LPG (RGDGPLMP1R) gas detector with 230V~ power supply, 1 230V~ or 12V~ cut-off valve (EVGPAFM020 N.O. 230V - EVGPCFM020 N.C. 230V - EVGBAF1020 N.O. 12V - EVGRCF1020 N.C. 12V) with manual reset, 2 x 3/4"to 1/2" nipples.





122 Catalog 2021 Rev.00

WIRELESS RESIDENTIAL DETECTION SYSTEM

The DR G02M can receive the alarm signal from up to 100 detectors, each installed in a different apartment.

The receiver, in the presence of a gas leak intercepted by one of the detectors installed, commands a solenoid valve that will block the gas supply. However, the number of detectors that can transmit the signal to a receiver depends on the distance (maximum 50 meters) and how the structure of the building was built.

The cement and iron present in the constructions 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 2 floors.

In any case, the display can show the signal intensity, a feature that is extremely useful for correctly positioning the receiver and deciding how many detectors can be associated with a single receiver. The receiver, thanks to the combination of the 2 keys on the front and the 3-digit display, allows you to program and / or view the following functions:

RADIO TRANSMISSION

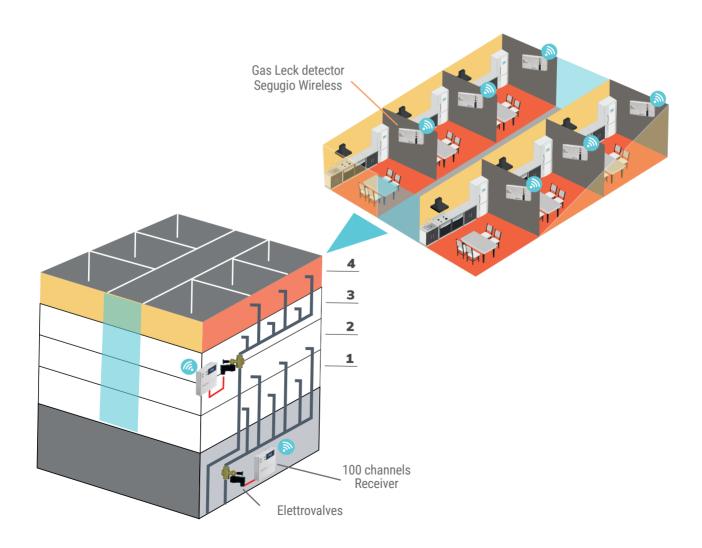
- Intensity of the received signal
- Analysis of received commands
- Signaling of malfunction in reception
- Possibility to display alarms or faults related to a specific apartment

ADDRESSES

- Possibility of associating a 3-digit address to each detector / transmitter that can indicate the building plan and the apartment number
- Ability to delete a learned address

DIAGNOSTICS

- Display of the channels (apartments) in which an alarm or fault has occurred, which will remain stored even in the absence of electricity
- Possibility to check the most common causes of receiver malfunction



www.seitron.com Catalog 2021 Rev.00

SEGUGIO WIRELESS

DDMSM1

Metano

DDGSM1

GPL



WIRELESS ENABLED GAS LEAKAGE DETECTOR METHANE or LPG

Version of SEGUGIO plus METANO/GPL equipped with a wireless radio transmitter. Microprocessor based domestic methane gas detector with output for both 230V~ and 12V~/= cut-off valves. Mute and test functions. Precalibrated sensor, directly replaceable by user. Compliance with CEI-EN 50194-1 certify the absolute reliability and efficiency of the device. The wireless transmitter module allows to transmit "failure" and "alarm" states to the receiver for gas alarm DRG01M.

Pre-calibrated sensor (ACMM01 METHANE, ACMG01 LPG), replaceable directly by the user.

TECHNICAL FEATURES

Power supply 230V~ 50Hz
Output (relay) 6(2)A @ 250V~ SPDT
Sensor type Sn02 Semiconductor

Precalibrated sensor, directly replaceable by user

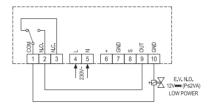
Sensor life 5 years
Alarm threshold 10% L.E.L.
Green LED indicator Detector active
Yellow LED indicator Detector failure

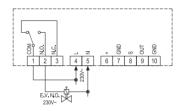
Red LED indicator Alarm

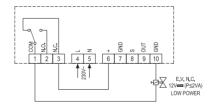
Alarm buzzer 85dB (A) @ 1m

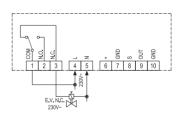
IP rating IP42

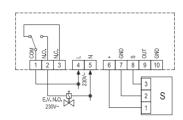
Dimensions H84 W148 D40mm
Transmission frequency 868,150 MHz
Max distance receiver 50 m

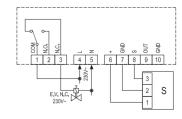












DRG01M



1 OUTPUT GAS ALARM RECEIVER

Wireless receiver for SEGUGIO WIRELESS, it features two SPDT relay outputs to activate a load in the event of a gas alarm and in the event of a sensor failure or other failure. Two multicolor LEDs provide "alarm" and "fault" status display as well as quality of radio communication display. The DRG01M can be associated by means of the self-learning procedure to more than one SEGUGIO WIRELESS, up to a maximum of 12.

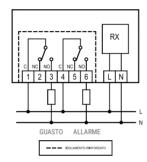
TECHNICAL FEATURES

Power supply230V~ 50HzPower absorption11VAOutput (relay)2x6A 250V~Transmission frequency868,150 MHzAntenna typeInternal stylus

Bicolour LED indicators Gas status/ transmission quality

IP rating IP4X

Dimensions H125 W78 D30,5mm



DRG02M



2 OUTPUT GAS ALARM RECEIVER

This device is a receiver equipped with an OLED display, designed for the activation of loads (specifically solenoid valves and / or acoustic signalers) in gas detection systems via radio for domestic environments. The receiver is able to manage up to 100 channels each of which is associated with a gas detector via radio. Furthermore the receiver has two relays: an alarm relay and a fault relay. Operating on the 868.150 MHz (LPD) frequency, it provides the user with all the advantages of this band such as greater freedom from interference and greater efficiency in signal propagation.

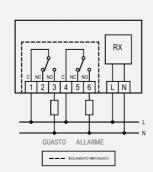
TECHNICAL FEATURES

Power supply 230V~ 50Hz
Power absorption 11VA
Output (relay) 2x6A 250V~
Transmission frequency 868,150 MHz
Antenna type Internal stylus

Bicolour LED indicators Gas status/ transmission quality

IP rating IP4X

Dimensions A125 L78 P30,5mm



WIRELESS GAS DETECTION SYSTEM

In order to simplify the installation of gas detectors in domestic or commercial living environments where significant numbers of detection points are also present, Seitron has developed a reliable and competitive range of products.

The detector, installed in the room where it is necessary to detect the gas leak, in addition to performing the local safety functions (optical and acoustic alarm, test function, fault detection), also transmits the alarm signal to the receiver via a 868MHz radio signal (ISM band). This makes it possible to do without the cables normally required between the detector and the point where it is necessary to perform the interception of the gas through a suitable electromechanical valve.

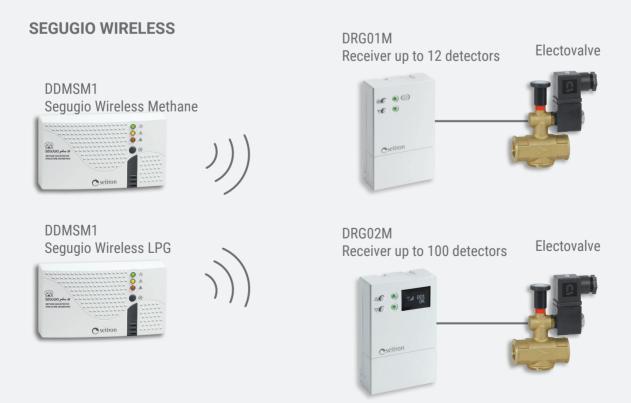
The radio transmission is carried out on the devices through Hardware components and extremely reliable Firmware functions, responding to the current European regulations on the use of ISM (Industrial, Medical and Scientific) radio bands and able to guarantee the remote transmission function even at distances very high. If some detectors are particularly distant from the receiver, it is possible to use the appropriate repeater device which then extends, by doubling or tripling, the operating distance between the elements of the system. The antenna of the radio system, both in the detector / transmitter and in the receiver of the system, is incorporated inside the plastic container.

In this architecture, a high number of Segugio Plus Radio gas detection units can coexist and transmit any alarm and fault signals to the radio receiver, which in turn is equipped with exchange relays which will activate the relative actuators.

The DRG02M receiver version can collect the radio signals coming from up to 100 units Segugio Plus Radio, just enough to satisfy the needs of a commercial activity or a medium-sized residential condominium. In order to simplify the installation and configuration of the system, the DRG02M receiver has an OLED graphic display that allows the coupling of each radio gas detector in a quick and safe way. The same display provides information of a diagnostic nature should one wish to check the status of the system or of the individual detectors that constitute it. In particular, the receiver provides the following functions:

- Coupling of a detector.
- Elimination of a detector.
- Indication of the intensity level of the radio signal (this function is of great importance to ensure that the radio connection is functional and efficient.
- Indication of the last alarms received

The receiver is housed in a plastic case that makes the work of the installer extremely simple since it requires only the wiring of the mains power supply and the controlled devices (solenoid valve and fault indicator).



KGM001

Kit Segugio Metano via radio

KGG001

Kit Segugio GPL via radio

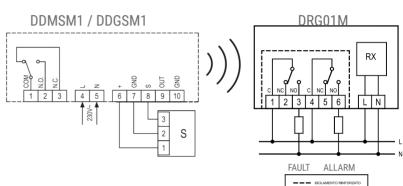
KIT SEGUGIO METHANE WIRELESS

KIT includes 1 detector Segugio wireless DDMSM1 and 1 receiver DRG01M

KIT SEGUGIO LPG WIRELESS

KIT includes 1 detector Segugio wireless DDGSM1 and 1 receiver DRG01M





www.seitron.com Catalog 2021 Rev.00 127

SGAMET

Methane

SGAGPL LPG



METHANE or LPG REMOTE SENSOR (ONLY FOR SEGUGIO)

Remote sensor for natural gas or LPG leaks. Semiconductor sensitive element. Sensor life: 5 years. IP30 container.

TECHNICAL FEATURES

Power supply 6V = .. 12V = from the control unit

Power consumption 1W
Output Signal voltage on / off

SnO2 semiconductor sensor type

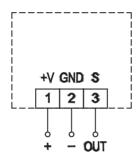
Sensor life 5 years

Detectable gas Methane or LPG

Sensitivity set 10% L.E.L.

Degree of protection IP30

Dimensions A90 L65 P30mm



ACCESSORIES

ACMM01

Replaceable pre-calibrated sensor for Methane gas detectors. Suitable for Segugio and Beagle plus.



ACMG01

Replaceable pre-calibrated sensor for LPG gas detectors. Suitable for Segugio and Beagle plus.



Replaceable pre-calibrated sensor for accumulation and threshold CO detectors. Suitable for Segugio Double and Beagle plus.

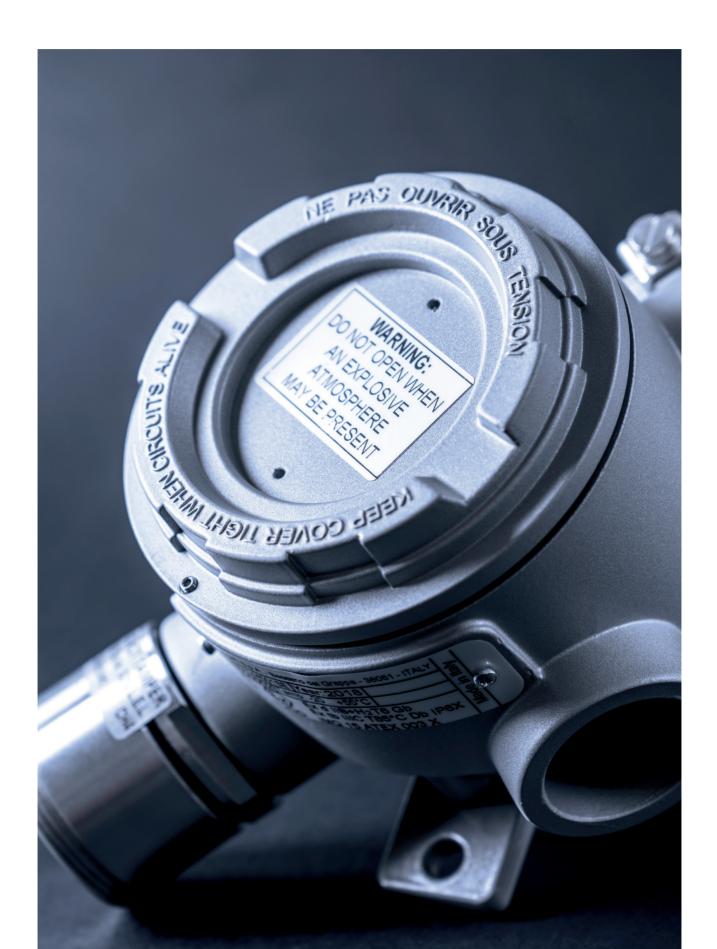


CHM1580001

Test for checking the operation of LPG and methane gas detectors, with untitrated gas, for approx. 70 tests.



INDUSTRIAL GAS DETECTORS



Seitron designs and manufactures detectors for methane gas, LPG, gas vapors and CO (Carbon Monoxide) for use in commercial premises and the process industry.

Definitions

- v/v: Is a way to express the concentration of a gas as a percentage of gas volume with respect to the total volume occupied by the mixture. Example: 1 liter of gas in 1 cubic meter (1000 liters) has a concentration of 1/1000 = 0.001 = 0.1% v/v (see fig. \triangle)
- **LEL** (Lower Explosive Limit): Is the gas concentration value below which the mixture cannot explode due to physical reasons. Since the gas concentration transmitters and gas detectors are designed for use in a concentration range which is LOWER than the LEL, their measuring range is usually expressed as a percentage of the LEL (see fig. **B**) LEL CH4 (G20 mixture) = 4.4% v/v = 100% LEL CH4 LEL LPG (G30 mixture) = 1.35% v/v = 100% LEL LPG
- **ppm** (parts per million): is a way to express the gas concentration as a fraction of the total volume occupied by the mixture (in 1 cubic meter 1 ppm is equivalent to 1 cm cube).

Full Range: Is the maximum concentration of gas measured by the device. It is usually expressed either in %LEL or in ppm (parts per million)

- 50% LEL: for use in commercial premises or in thermal power plants, where such concentration is unlikely to occur.
- 100% LEL: for use in industrial process plants, often even in ATEX classified areas.
- 500 ppm: is the usual measurement range for toxic gases such as CO (Carbon Monoxide).

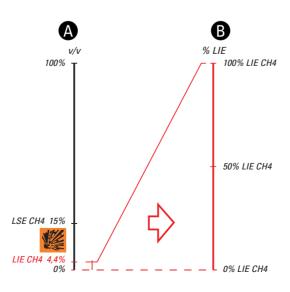
Signal output: Describes the type of electrical signal delivered by the device in order to communicate the measured concentration to the control device connected to it.

- 4..20 mA: Is an analog standard widely used in industrial devices. The device sets on the output 'loop' a current value that ranges from 4 mA (0% of the Full Range) to 20 mA (100% of the Full Range). Other current values set in the loop may have different meanings (eq.: 2 mA = Fault Device). The advantages of this system are mainly:
- Great immunity to electrical noise
- Possibility to detect the status of interrupted 'loop' (equivalent to 0 mA).
- **Modbus** ®: Is a digital standard for transmitting data simply and easily and is adaptable to any control systems based on PLC or PC. The measured values are available in special 'registers' that are polled in 'master-slave' fashion by the PLC or PC.

Housing: Describes the material and the features of the device housing.

- **Plastic**: Polycarbonate (PC) housing for industrial use. Suitable for commercial or light industrial premises where no ATEX classified areas are present.
- **Metal:** Sintered stainless steel container for industrial use. Suitable for light commercial or industrial environments where there are no ATEX classified areas.
- ATEX Metal: Assembly featuring both the container and the 'nose' as ATEX Certified and therefore are provided with the proper certificate that allows installation in ATEX classified areas (usually Zone 1). Even the production is subject to specific controls and surveillance acted by a certified body (IMQ in case of Seitron).

This picture shows the concentration of gas in% v/v (volume over volume), with highlighted the concentration range within which the explosion might happen. For gas methane (CH4), this range is from 4.4% v/v (LEL) to 15.0% v/v (UEL – Upper Explosive Limit)



The picture in red highlights, zooming it to 100%, only the range of gas concentration below the Lower Esplosive Limit (LEL) for methane gas (CH4).

This scale is normally used for gas detectors because it focuses only to the range of concentration to be monitored for the purpose of the explosion hazard control.

INTERFACES

4..20mA

Fault in current loop: 0.0 mA ZERO: 4.0 mA Full range: 20.0 mA

Maximum resistance applicable as load at current loop output (4..20 mA) when supply voltage is 12V= -15% is 350 ohm.

Relays

12 Vdc Supply voltage:

Maximum absorption: 80 mA @ 12 Vdc Contact rating: 3 x 2 A 250 V~ (voltage free)

Modbus ®

Interface: RS485.

Parameters: 19200, 8, N, 1. Communication protocol: Modbus® RTU

(rif.: www.modbus.org)

CASE

PLASTIC HOUSING

Filter: Sinterised PE ABS V0 - ABS HB Case: Dimensions: W5.3 H4.8 D2.5 in W134 H124 D67 mm

Protection rating: **IP54**

ATEX METAL FOR N.C. ZONES

Filter: Sinterised stainless steel Case: Die-cast Aluminum Dimensions: W6.5 H4.6 D3.5 in W165 H117 D90 mm

IP6X Protection rating:

ATEX METAL FOR C.A. ZONES

Filter: Sinterised stainless steel Die-cast Aluminum Case. Dimensions: W6.5 H4.6 D3.5 in W165 H117 D90 mm

IP6X Protection rating:









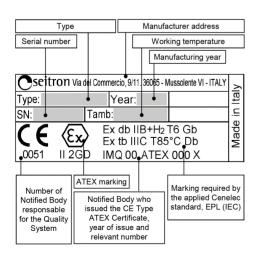


x II 2GD

Ex db IIB+H₂ T6 Gb Fx th IIIC T85°C Db IMO 15 ATEX 0003 X

131

LABELLING



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

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

Ex d: Equipment with ATEX Ex d protection mode (flameproof housing).

IIB+H2: Equipment of group IIB suitable for all gas substances of group IIB as well as for H2 (Hydrogen). A device of group IIB + H2 is also suitable for areas with gas of group IIA and IIB.

T6: Temperature class of equipment (maximum surface temperature 85° C). A device with temperature class T6 is also suitable for substances with higher temperature class (T5

Gb: EPL: Equipment Protection Level according to IEC. 'Gb' stands for 'high protection level (b) for areas with Gas (G)'.

Ex tb: Equipment with ATEX Ex tb's type of protection for dusts (with housing - high level of protection).

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

85°C: Temperature class of the equipment for use with powders: maximum surface temperature: 85 ° C.

EPL: Equipment Protection Level. 'Db' stands for 'high level of protection (b) for areas with dust (D)'

IMQ 00: Notified Body that issued the Certificate of Compliance of the Type (IMQ) and year of issuance.

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

Special conditions of use (see Safety Instructions)

www.seitron.com Catalog 2021 Rev.00

INDUSTRIAL RANGE TRANSMITTERS





Gas	Working Range	Output signal	Certificate	Cod
	50% L.E.L.	420mA + Modbus	IMQ 15 ATEX 003 X	SXMX14M1Y
Methane	100% L.E.L.	420mA + Modbus	IMQ 15 ATEX 003 X	SXMX16M1Y
LPG	50% L.E.L.	420mA + Modbus	IMQ 15 ATEX 003 X	SXGX14M1Y
	100% L.E.L.	420mA + Modbus	IMQ 15 ATEX 003 X	SXGX16M1Y
	50% L.E.L.	420mA + Modbus	IMQ 15 ATEX 003 X	SXVX14M1Y
Gas Vapor	100% L.E.L.	420mA + Modbus	IMQ 15 ATEX 003 X	SXVX16M1Y
CO	0 500 ppm	420mA + Modbus	IMQ 15 ATEX 003 X	SXCX11M1Y





Gas	Working Range	Output signal	Certificate	Cod
Methane	50% L.E.L.	420mA	IMQ 20 ATEX 006	SWMX1411
LPG	50% L.E.L.	420mA	IMQ 20 ATEX 006	SWGX1411
Gas Vapor	50% L.E.L.	420mA	IMQ 20 ATEX 006	SWVX1411
Hydrogen	20% L.E.L.	420mA	IMQ 20 ATEX 006	SWHX1211



COMMERCIAL RANGE TRANSMITTERS

Gas	Working Range	Output signal	Certificate	Cod
Methane	50% L.E.L.	50% L.E.L. 420mA + Modbus		SYMN54B
LPG	LPG 50% L.E.L. 4		metallic	SYGN54B
Gas Vapor	50% L.E.L.	420mA + Modbus	metallic	SYVN54B
CO	0 500 ppm	420mA + Modbus	metallic	SYCN51B

BASE RANGE TRANSMITTERS





Gas	Campo Misura	Output signal	Certificate	Cod
	50% L.E.L.	420mA + Modbus	grey plastic	SYMN24B
Methane		420mA + Modbus + Relè + Buzzer + LED	transparent plastic	SYMN04R
Methane	4000/151	420mA + Modbus	grey plastic	SYMN26B
	100% L.E.L.	420mA + Modbus + Relè + Buzzer + LED	transparent plastic	SYMN06R
		420mA + Modbus	grey plastic	SYGN24B
LPG	50% L.E.L.	420mA + Modbus + Relè + Buzzer + LED	transparent plastic	SY GN 04R
LPG	100% L.E.L.	420mA + Modbus	grey plastic	SY GN 26B
		420mA + Modbus + Relè + Buzzer + LED	transparent plastic	SYGN06R
	50% L.E.L.	420mA + Modbus	grey plastic	SYVN24B
Oce Vener		420mA + Modbus + Relè + Buzzer + LED	transparent plastic	SYVN04R
Gas Vapor	100% L.E.L.	420mA + Modbus	grey plastic	SYVN26B
		420mA + Modbus + Relè + Buzzer + LED	transparent plastic	SYVN06R
СО		420mA + Modbus	grey plastic	SYCN21B
	0 500 ppm	420mA + Modbus + Relè + Buzzer + LED	transparent plastic	SYCN01R

All transmitters are compatible with the RYM02M0, RYM02M1, RYM02M2, RYK01M control units. There is only one exception: SW-X transmitters do not work with the RYK01M control unit.

 $\qquad \qquad \text{www.seitron.com} \qquad \qquad \qquad \text{Catalog 2021 Rev.00} \qquad 133$

RY M02M2

2 channel control unit

RY M02M1

4 channel control unit

RY M02M0

8 channel control unit





ACCESSORIES AC AL010

Power Supply 100 .. 240V 50 .. 60Hz



AC IV01 Interface 0..12V => 0..5V

INDUSTRIAL CONTROL UNIT WITH 2..8 ZONES - 4..20 mA

Industrial gas detection control unit in 9-module DIN container, capable of monitoring the concentration of gas up to a maximum of 8 zones. A 4 .. 20 mA transmitter can be connected indiscriminately for each zone for the detection of LPG, Natural Gas, Carbon Monoxide (CO) or gas vapor.

TECHNICAL FEATURES

Power supply: 12..24 V o 100..240 V , 50..60 Hz

Versions: 2/4/8 outputs

Manages transmitters: CO, LPG, Methane (CH4) and Gas Vapors (n-octane)

Display: LCD 2 x 16

Mounting: Din bar 9 modules
Outputs: 1 Relay Pre-Alarm
1 Relay Alarm 1

1 Relay Alarm 2 2 Relays auxiliary

Contacts rating: $5 \times 8A = 250 \text{V} \sim \cos \phi = 1$

Events: Open, Fault, Pre-Alarm, Alarm 1, Alarm 2

Pre-Alarm threshold range: Methane, L.P.G. and Gas vapor OFF / 1%..100% LEL

CO OFF / 1 .. 999 ppm

Alarm 1 threshold range: Methane, L.P.G. and Gas vapor OFF / 1%..100% LEL

CO OFF / 1 .. 999 ppm

Alarm 2 threshold range: Methane, L.P.G. and Gas vapor OFF / 1%..100% LEL

CO OFF / 1 .. 999 ppm

Fault: activate the buzzer and the yellow blinking.

Pre-Alarm: activate the buzzer, the yellow and red blinking leds.

Alarm 1: activate the buzzer, the yellow and red fixed light leds.

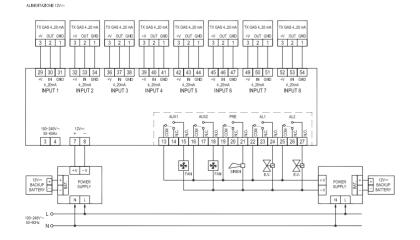
Alarm 2: activate the buzzer, the yellow and red fixed light leds.

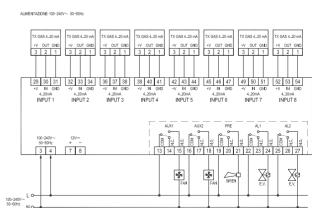
Dimensions: 6.2L x 3.5A x 2.8P in - 158L x 90A x 71P mm

Compliant with performance std: EN 60079-29-1: 2016

ATEX Certificate: IMQ 20 ATEX 004 X

Protection grade: IP20





134

Catalog 2021 Rev.00

RY K01M 32 channel Modbus® control unit



ACCESSORIES AC AL010

Power Supply 100 .. 240V 50 .. 60Hz



AC IMB2

Modbus® RTU Interface



AA SW20

Multizone GAS systems monitoring software



INDUSTRIAL CONTROL UNIT WITH 32 ZONES

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

TECHNICAL FEATURES

Contacts rating:

Power supply 230V~ 50/60 Hz
Outputs 1 Relay Pre-Alarm
1 Relay Alarm 1

1 Relay Alarm 2 2 Relays auxiliary 5 x 8A 250V~ cos\phi =1

Events: Open, Fault, Pre-Alarm, Alarm 1, Alarm 2

Pre-Alarm threshold range: Methane, L.P.G. and Gas Vapors

OFF / 1%..100% LEL CO OFF / 1 .. 999 ppm

Alarm 1 threshold range: Methane, L.P.G. and Gas Vapors

OFF /1%..100% LEL CO OFF / 1 .. 999 ppm

Alarm 2 threshold range: Methane, L.P.G. and Gas Vapors

OFF / 1%..100% LEL CO OFF / 1 .. 999 ppm

Fault: activate the buzzer and the yellow blinking.

Pre-Alarm: activate the buzzer, the yellow and red blinking leds.

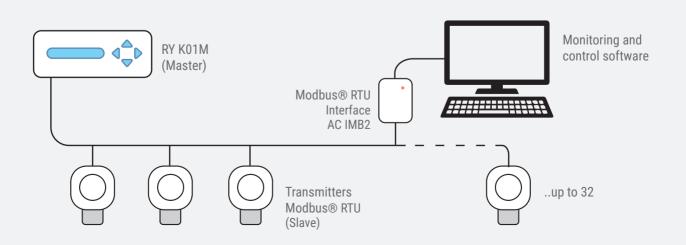
Alarm 1: activate the buzzer, the yellow and red fixed light leds.

Alarm 2: activate the buzzer, the yellow and red fixed light leds.

Dimensions: 6.2L x 3.5A x 2.8P in - 158L x 90A x 71P mm

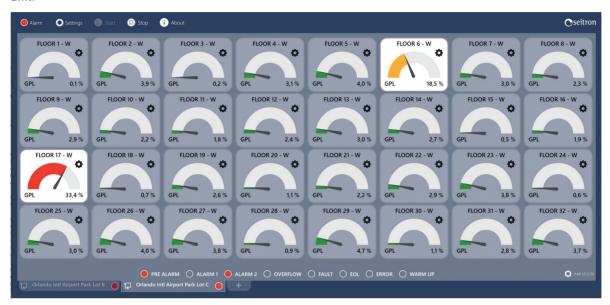
JIIIEIISIOIIS. U.ZL X J.C

Protection grade: IP20



Multizone Gas Systems monitoring software

Windows software for the management and monitoring of RYK01M control units connected through ACIMB2 gateways. The user-friendly interface allows to display each control unit as a stand-alone tab. Here the user can find the configuration parameters of the unit and visualize the data collected by the detectors connected to that specific unit.







RXA01M



INDUSTRIAL CONTROL UNIT FOR 8 ZONES

Industrial control unit for gas detection with 8 zones fit in IP44 capable of monitoring gas concentration up to maximum 8 zones.

Possibility of connecting a 4 .. 20 mA transmitter in each zone for the detection of LPG, methane, carbon monoxide (CO) or petrol vapours.

TECHNICAL FEATURES

Power supply: 230V~ 50/60 Hz or 12Vdc with backup battery

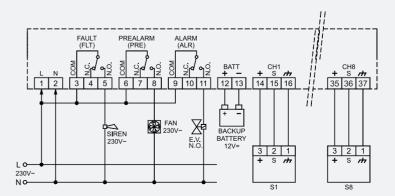
Absorption: 15W max. Activation time: 60 s.

Input (4..20mA): 1 for toxic gases

5 for flammable gases

5x3(1)A 250V~ SPDT Contacts rating: Protection rating: IP 30 (acc. EN 60529)

Humidity limit: 20% .. 80% RH (non condensing) Dimensions: 245x100x60 mm (LxHxD)



136 www.seitron.com Catalog 2021 Rev.00

TRANSMITTER ADAPTERS FOR GAS CALIBRATION

CODE	DESCRIPTION
ACAD05	Aluminum adapter for SX-N, SY-N and SW-X transmitters calibration
ACAD06	Aluminum adapter for ATEX SX-X transmitters calibration

INTERFACES and ACCESSORIES FOR TRANSMITTERS

CODE	DESCRIPTION
ACIR01	Interface: 2 Relay, Led, Buzzer for SY transmitters
ACTP01	3/4" NPT PLUG FOR ATEX SX series transmitters

SENSORS FOR TRANSMITTERS

CODE	DESCRIPTION
ACMG04	LPG gas sensor for gas transmitter SXGX14-
ACMM04	Methane gas sensor for gas transmitter SXGX14-
ACMV04	Gas Vapors gas sensor for gas transmitter SXGX14-

REPLACEABLE SENSORS FOR TRANSMITTERS IN PLASTIC CASE

	GAS				
CODE	Gas Vapors	CO	LPG	METHANE	
ACMC08		0500 ppm			
ACMG02			050% LIE		
ACMG07			0100% LIE		
ACMM02				050% LIE	
ACMM07				0100% LIE	
ACMV02	050% LIE				
ACMV07	0100% LIE				



www.seitron.com Catalog 2021 Rev.00 137

ENTRY LEVEL RANGE

Seitron gas leak detection products in the Entry Level line are specifically designed for use in non classified environments and where the performance requirements are not particularly stringent in terms of concentration range and intervention level or by operating temperature range. It is a whole range of gas leak detectors and related control units designed for use in small boiler rooms, in material stockrooms, small garages and other commercial environments and is effective for detecting any gas leaks and the subsequent actuation of a solenoid valve for gas cut-off.

The intervention levels are factory set at a threshold much lower than the Lower Explosive Limit, typically around 10% of the LEL, thus granting the necessary safety for the countermeasures to be adopted.

The technology used for the sensors can be, depending on the model, both semiconductor and catalytic.

These are available in a wide range that includes:

- · Stand-alone detectors, with or without internal sensor.
- Detectors wired to each other for expanding the number of detection zones.
- · Detectors with outputs for pre-alarm and alarm.
- Detectors for methane (CH4), LPG and carbon monoxide (CO).
- Detectors with the possibility of wiring external pushbuttons for manual reset and alarm.
- Control unit and display of the status of the wired detectors.
- · Control unit both for wall mount and for DIN rail mount.

Some versions have a reset button which allows the use of automatic valves for gas interception, thus granting for reopening of the gas flow only after human intervention. The range is completed by a set of accessories such as gas shut-off valves and optical-acoustic indicators.

RIM01RM

Methane

RIG01RM

LPG



GAS DETECTOR FOR MULTI-POINT SYSTEMS

This gas detector is able to detect different gases:

the RI G01RM version is LPG-sensitive while the RI M01RM version detects Methane (CH4); it is also possible to connect up to 10 detectors in cascade via the 3 dedicated terminals. The device is able to signal gas concentrations far below the hazard thresholds and other conditions relating to the state, via 4 LEDs and an internal buzzer. Possibility to connect one or more external buttons for the activation of a manual alarm. Possibility to connect one or more external buttons for system reset after an alarm.

TECHNICAL FEATURES

Power supply: $100 - 240 \text{V} \sim 50/60 \text{ Hz}$

Power consumption: 3 VA Sensor Type: Catalytic

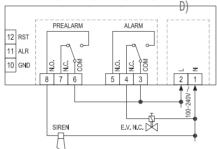
Contact rating: Pre-alarm relay: 3 (2) A 250V ~ SPDT

Relay Alarm: 3 (2) A 250V ~ SPDT

Gas detected: RIG01M: LPG RIM01M: Methane

Degree of protection: IP 54

Dimensions (including cable glands): 5.2 x 4 x 2.4 in - 134 x 100 x 62 mm (L x H x



RGIME1MSX2

Methane

RGIGP1MSX2

LPG



1 IN 2 OUT METHANE OR LPG GAS DETECTOR

Detector for methane or LPG gas leakages with two relay outputs, internal sensor and facility for a second remote sensor (1) and for back-up battery (ACCSGB12). Reset button. IP54 case.

For Non-classified ATEX zones.

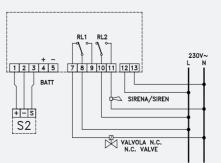
TECHNICAL FEATURES

Power supply 230V~-15/+10% 50Hz
Output 1 (relay x e.v.) 4(2)A @ 250V~ SPDT
Output 2 (relay x alarm) 4(2)A @ 250V~ SPST
Internal sensor Semiconductor for natural gas

Alarm threshold 13% L.E.L.
Indicators: active/alarm1/alarm2 Green/red/red LED

Push button Reset
Delay on e.v. relay ~15 sec.
IP rating IP54

Dimensions H79 W134 D62mm



Notes:

(1) The remote sensor to be used are: SGA MET, SGA GPL, SGI ME1, SGI GP1, SGI ME1 M, SGI GP1 M

(2) The back-up battery to be used is ACCSGB12.

RGI000MSX4



4 IN 2 OUT + RESET CONTROL UNIT

Control unit for gas leakage sensors; input for up to 4 remote sensors (1). Reset and test pushbuttons. Memory of the alarm state. 2 relay outputs.

TECHNICAL FEATURES

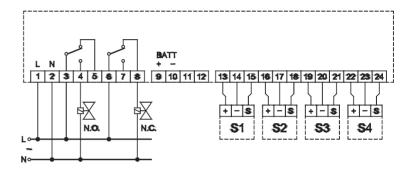
Power supply 230V~ -15/+10% 50Hz Output (relay) 2x6(2)A @ 250V~ SPDT

Indicators:

active/fault/alarm 4 Green LEDs/blinking LED/4 red LEDs

Delay on e.v. relay 1 .. 90 sec.
Button 1 Test
Button 2 Reset
IP rating IP54

Dimensions H188 W230 D114mm



Notes: (1) The remote sensor used are: **SGAMET, SGAGPL, SGIME1, SGIGP1, SGIME1M, SGIGP1M**.. (2) The back-up battery to be used is ACCSGB12.

RGI001MSX2



2 IN 2 OUT + RESET CONTROL UNIT

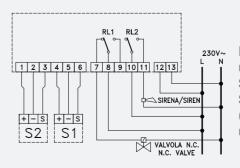
Control unit for gas leakage sensors with two relay outputs, inputs for 2 remote sensors (1). Reset button. IP54 case. For Non-classified ATEX zones.

TECHNICAL FEATURES

 $\begin{array}{lll} \mbox{Power supply} & 230\mbox{V}\sim -15/+10\% \ 50\mbox{Hz} \\ \mbox{Output 1 (relay x e.v.)} & 4(2)\mbox{A @ }250\mbox{V}\sim \mbox{SPDT} \\ \mbox{Output 2 (relay x alarm)} & 4(2)\mbox{A @ }250\mbox{V}\sim \mbox{SPST} \\ \mbox{Indicators: active/alarm1/alarm2} & \mbox{Green/red/red LED} \\ \mbox{Delay on e.v. relay} & \sim 15 \mbox{ sec.} \\ \mbox{Push button} & \mbox{Reset} \\ \end{array}$

Dimensions H79 W134 D62mm

IP rating IP 54



Notes: (1) The remote sensor used are: SGAMET, SGAGPL, SGIME1, SGIGP1, SGIME1M, SGIGP1M.

(2) The back-up battery to be used is ACCSGB12.

RGI000LBXD



10 IN 1 OUT + RESET CONTROL UNIT

Control unit for gas leakage sensors with alarm buzzer; input for up to 10 remote 230V~ powered sensors (1). Reset and test pushbuttons and acoustic alarm. For non-classified ATEX zones.

TECHNICAL FEATURES

Power supply 230V~ $\pm 10\%$ 50Hz Battery 12V $\pm 10\%$

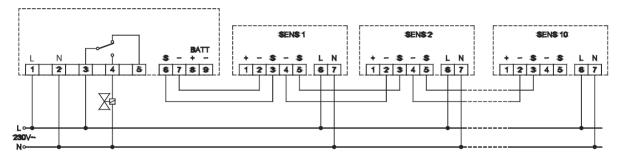
Output (relay) 5(1)A @ 250V~ SPDT active/prealarm/alarm Green/red/red LED

Delay on e.v. relay >20 sec.
Button 1 Test
Button 2 Reset

Case 6 modules for DIN-rail

IP rating IP54

Dimensions H90 W105 D70mm



Notes: (1) The remote sensor used are: SGAMET, SGAGPL, SGIME1, SGIGP1, SGIME1M, SGIGP1M.

(2) The back-up battery to be used is ACCSGB12.

RGI000MBX2



2 IN 2 OUT DIN RAIL MOUNT BASIC CONTROL UNIT

Control unit for gas leakage sensors in 3 module DIN-rail case, with two relay outputs, inputs for 2 remote sensors (1) and for back-up battery (ACCSGB12). Test and reset buttons. For Non-classified ATEX zones.

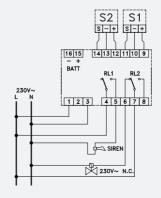
TECHNICAL FEATURES

Power supply 230V~ -15/+10% 50Hz
Output 1 (relay x e.v.) 4(2)A @ 250V~ SPDT
Output 2 (relay x alarm) 4(2)A @ 250V~ SPST
Indicators: active/alarm1/alarm2 Green/red/red LED
Delay on e.v. relay ~15 sec.
Push buttons Test/reset

Case 3 modules for DIN-rail

IP rating IP30

Dimensions H96 W53 D73mm



Notes: (1) The remote sensor used are: SGAMET, SGAGPL, SGIME1, SGIGP1, SGIME1M, SGIGP1M.

(2) The back-up battery to be used is ACCSGB12.

141

www.seitron.com Catalog 2021 Rev.00

SGIME1

Per gas metano

SGIGP1

Per gas GPL



REMOTE SENSOR

Remote sensor for methane or LPG gas leakages. Semiconductor sensing element. Alarm threshold: 10% L.E.L. . Sensor life: 5 years. IP 54 case. Powered by control unit.

SGIME1M

Per gas metano

SGIGP1M

Per gas GPL



REMOTE SENSOR

Remote sensor for methane or LPG gas leakages. Semiconductor sensing element. Alarm threshold: 10% L.E.L. . Sensor life: 5 years. IP 54 case. $230V\sim$ power supply.

RGICO0L42



CO DETECTOR

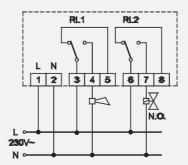
Detector for carbone monoxide leakages with two relay outputs and internal sensor. Test and reset button. IP40 case.

TECHNICAL FEATURES

 $\begin{array}{lll} \mbox{Power supply} & 230\mbox{V} \sim \pm 10\% \ 50\mbox{Hz} \\ \mbox{Output 1 (relay x alarm)} & 6(2)\mbox{A @ }250\mbox{V} \sim \mbox{SPDT} \\ \mbox{Output 2 (relay x e.v.)} & 6(2)\mbox{A @ }250\mbox{V} \sim \mbox{SPDT} \\ \mbox{Prealarm threshold} & 16\mbox{ppm} \pm 4\mbox{ppm CO} \\ \mbox{Alarm threshold} & 80\mbox{ppm} \pm 4\mbox{ppm CO} \\ \mbox{Indicators: active/fault/alarm} & \mbox{Green/yellow/red LED} \\ \end{array}$

IP rating IP40

Dimensions H100 W130 D62mm



Sensore precalibrato ACCRIC0001

ACCESSORIES

ACSR01

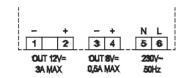
Electronic 76dB whistle with 21W flasher. 12V-24V power supply



ACCSGB12

Back-up battery for RGY000MBP4, RXA01M, RS0021, RGI000MSX4, RGI000LBXD, RGI000MBX2, RGI001MSX2. 8V-12V outputs. Battery autonomy ~3 hours (depending on the loads connected).





ACCSRL220

Electronic 70dB whistle with 25W flasher. 220V~power supply



ACAL10

Power supply 100 .. 240V 50 .. 60Hz



WWW.seitron.com Catalog 2021 Rev.00

143



N.O. ELECTROVALVES

Cut-off electro-valves for gas with manual reset. Normally open. During normal operation there is no electrical consumption. Power consumption: 19VA. Max working pressure 7.2 PSI - 500mBar.

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

Notes: ALSO AVAILABLE FOR 12V POWER SUPPLY



N.C. ELECTROVALVES

Cut-off electro-valves for gas with manual reset. Normally closed: must be continuously powered to allow the gas flow. Power consumption: 19VA. Max working pressure $7.2\ PSI$ - 500mBar.

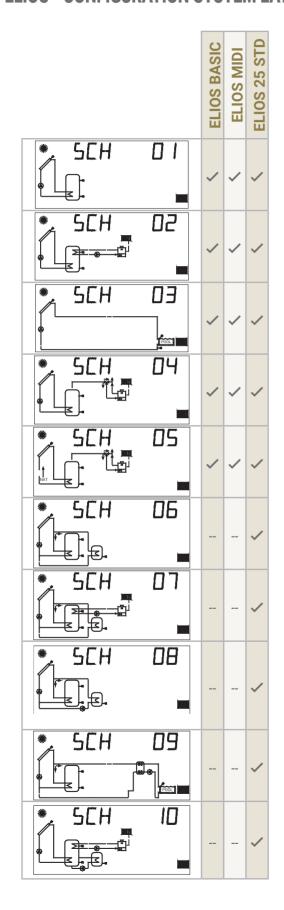
Cod	Coupling	Power supply	Coupling type
EVGPCFM015	DN15 (1/2")	230Vac 19VA	Threaded
EVGPCFM020	DN20 (3/4")	230Vac 19VA	Threaded
EVGPCFM025	DN25 (1")	230Vac 19VA	Threaded
EVGNCFM032	DN32 (1"1/4)	230Vac 19VA	Threaded
EVGNCFM040	DN40 (1"1/2)	230Vac 19VA	Threaded
EVGNCFM050	DN50 (2")	230Vac 19VA	Threaded

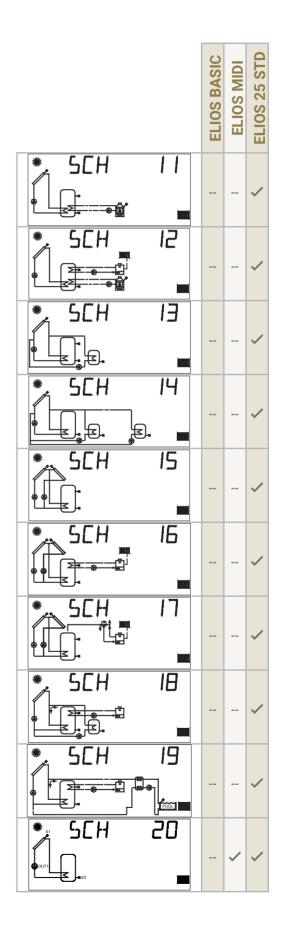
Notes: ALSO AVAILABLE FOR 12V POWER SUPPLY

SOLAR HEATING CONTROLLERS



ELIOS - CONFIGURATION SYSTEM LAYOUTS





ELIOS BASIC

TST01M

3 probes included:

1 probe STLDESL150, 2 probes STLDEIM150



ANALOG SOLAR CONTROLLER

Analog differential controller for solar heating plants. Three temperature inputs from NTC sensors and 2 on-off relay outputs SPST.

Additional thermostat for driving auxiliary heat source. LEDs show presence of power and pump activity. Configuration of 5 different system layouts. Adjustable antifrost function. Only for 230Vac Live + Neutral powered circulators (doesn't feature any PWM or 0..10V output). In case of circulators with either PWM or 0..10V input please use accessory ACIW01.

TECHNICAL FETAURES

Power supply 230V \sim -15% +10% 50Hz Sensor NTC 10k Ohm @25°C \pm 1%

Power absorption 2,3VA

Pump output 5(1)A@250V~(powered) Integration output 5(1)A@250V~(powered)

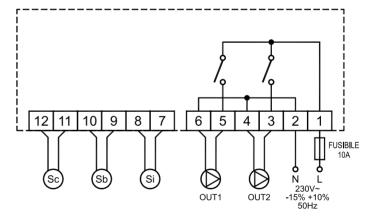
Accuracy ±1,5°C

Green LED indicator Power supply

Red LED indicator Pump active

 $\begin{array}{ll} \text{IP rating} & \text{IP30} \\ \text{Operating temperature range} & 0^{\circ}\text{C} ... 40^{\circ}\text{C} \\ \text{Storage temperature range -10^{\circ}C} ... +50^{\circ}\text{C} \\ \end{array}$

Humidity limits 20% .. 80% non-condensing Case ABS VO self-extinguishing Dimensions H87 W132 D37mm



www.seitron.com Catalog 2021 Rev.00 147

ELIOS MIDI

TDST24M

3 probes included:

1 probe STLDESL150, 2 probes STLDEIM150



SOLAR CONTROLLER

Digital differential controller for solar heating plants. Three temperature inputs from NTC sensors and 2 on-off relay outputs + 1 NO/NC auxiliary output for alarm, 1 PWM output and 1 0..10V output. Additional thermostats for driving auxiliary heat sources. All temperatures are displayed. Configuration of 6 different system layouts. Self diagnostic feature, with visual and acoustic alarms.

TECHNICAL FETAURES

230V ~ ±10% 50Hz Power supply

Power absorption <2 VA

Inputs 3 x NTC 10k Ohm @ 25°C Sensor operating range 2NTC 10K (-50°C÷110°C) 1NTC 10K (-50°C÷200°C)

Temperature reading range -20°C .. 180°C

Accuracy ±2°C

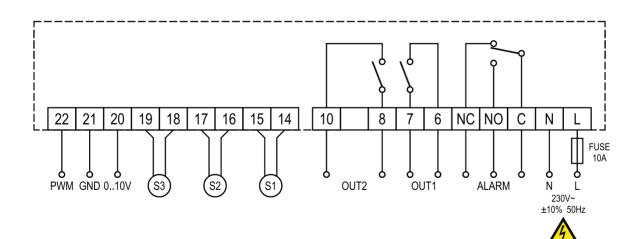
Resolution 0,1°C up to 99,9°C/ -20 +144,1°C up to 145 ÷180°C

Offset adjustment on S1, S2, S3: ±5°C On/Off (default On) Acoustic signal Back light timing 20 sec. from last keypress Contacts rating 1 x 2(1)A max @ 250V~ (SPST) (voltage free) 1 x 8(1)A max @ 250V~ (SPST) 1 x 4(1)A max @ 250V~ (SPDT)

PWM, 0..10V Outputs

IP rating IP40 0°C .. 40°C Operating temperature range Storage temperature range -10°C .. +50°C

Humidity limits 20% .. 80% non-condensing Case ABS VO self-extinguishing **Dimensions** H108 W156 D47mm



148 www.seitron.com Catalog 2021 Rev.00

ELIOS 25 STANDARD

TST12M

3 probes included:

1 probe STLDESL150, 2 probes STLDEIM150



SOLAR CONTROLLER

Digital differential controller for solar heating plants.

4 Pt1000 temperature inputs, 2 PWM output, 1 alarm auxiliary relay output SPDT. All temperatures are displayed. Configuration of 20 different system layouts. Self diagnostic feature, with visual and acoustic alarms. Available functions: recooling function, pump/valve kick, calorimeter.

TECHNICAL FETAURES

Power supply 230V ~ 50Hz

Power absorption 4VA

Inputs 4 x Pt1000 Classe B DIN Sensor operating range $-50 \,^{\circ}\text{C} ... +200 \,^{\circ}\text{C}$ (collector) $-50 \,^{\circ}\text{C} ... +110 \,^{\circ}\text{C}$ (Boiler)

Offset; adjustable on S1,S2,S3,S4: ±5.0°C

Output relay contacts rating

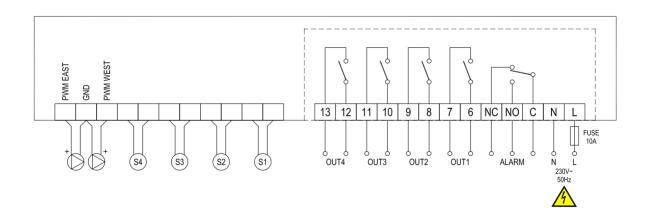
OUT1 - OUT2 - OUT3 - OUT4: 4x2(1)A max 230V~(SPST)

Contacts powered

Alarm relay contacts rating: 4(1)A max 230V~(SPDT)
Output Signals: PWM: Ampiezza: 10V ±15%

IP Rating: IP 40
Action type: 1
Pollution Rating: 2

Operating temperature range: 0°C .. 40°C
Storage temperature range: -10°C .. +50°C
Dimensions: H156 W108 D47



www.seitron.com Catalog 2021 Rev.00

149

ACCESSORIES

ACIW01

Allow to convert On-Off pump output into a PWM or 0..10V output.



STLMTIM150

Pt1000 probe -50°C .. +110°C B DIN class



STLMTSL150

Pt1000 probe -50°C .. +200°C B DIN class



STLDEIM150

NTC probe: 10K 1% -50°C .. +110°C



STLDESL150

NTC probe: 10K 1% -50°C .. +200°C



STLPTSA150

PTC probe for solar controller (TDS005M, out of production). PTC 2k 0hm @25°C Working range - 25°C + 125°C



ELIOS GPS 9

KCS009



PUMP STATIONS

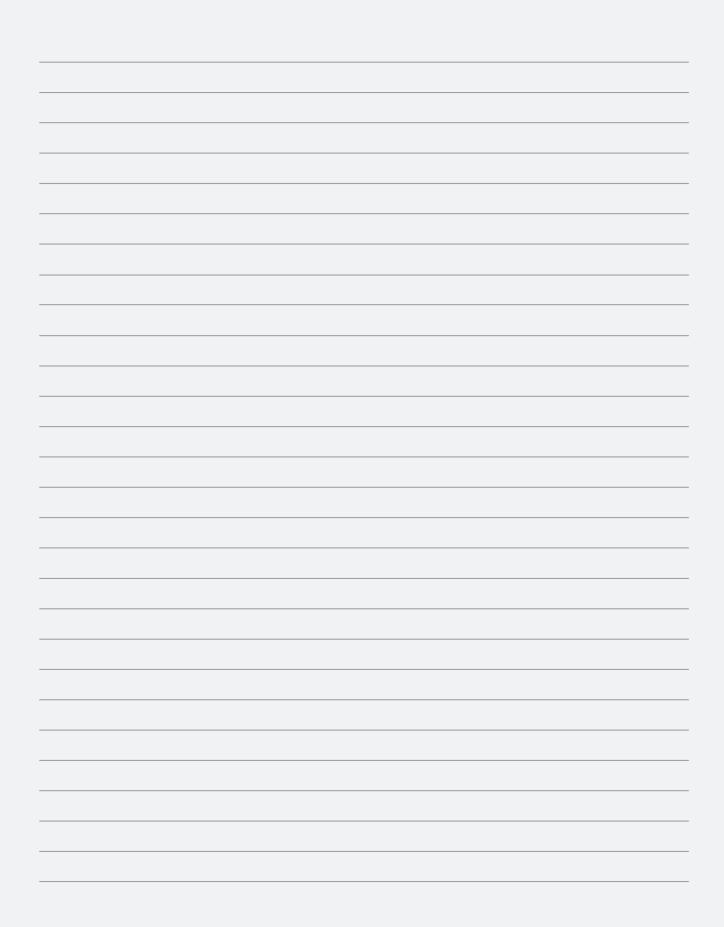
Two pipes solar kit (supply/return), preassembled and leak tested module for solar plants with thermal insulation case. High efficiency pump (Erp-2015).

TECHNICAL FEATURES

The solar kit features:

- Return valve with thermometer (0÷160°C)
- Manual air vent
- Flowmeter (2-12I/min)
- Fill /Drain valve
- Solar pump 15/75, dedicated to solar plants
- Safety group: Pressure Gauge (0 \div 10 bar), G Connector $\frac{3}{4}$ " for connection to the expansion vessel, safety valve (6 bar Rp $\frac{3}{4}$ ")
- Supply valve with thermometer (0÷160°C)
- Thermoinsulating case

www.seitron.com Catalog 2021 Rev.00 151



CLIMATE CONTROLLERS



RKP01M

3 accessories included: STED01, STLD01, ACAD02



CLIMATE REGULATOR

Climate regulator for systems with traditional heating and / or floor heating. It allows to manage 3 outputs (3 + 1 Relays) and 4 inputs Probes, 1 input for the thermostat environment and input 1 for the Remote Controller.

After selecting a plant, the climate regulator automatically manages the inputs and outputs used in the plant chosen.

The types of plants are the following: 1) 3-way valve and circulation pump PI floating valve regulation. 2) 3-way valve and circulation pump, optional use of the recirculation pump PI floating valve regulation. 3) One-stage burner, circulation pump, optional use the recirculation pump, ON - OFF type of management, 2-point control. 4) Two-stages burner and circulation pump, optional use the recirculation pump, type of management ON - OFF, 2-point control.

TECHNICAL FEATURES

Power supply $230V \sim \pm 10\% 50/60$ Hz Output (relay) $3x2(1)A @ 250V \sim SPST$

1x2(1)A @ 250V~ SPDT

Working range -20 .. +120°C

Working curves 0.5 .. 4 T mand./T est.

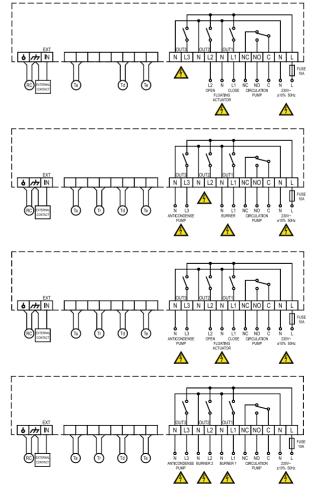
LCD display Backlit

Type of regulationComfort/Economy/Antifrost/Off 3 sensors included 3xNTC (10k Ohm @ 25°C)

Sensor input 4

Programming clock Hourly / Weekly Dimensions H108 W156 D47mm

IP rating IP40 Class Reg.2013/811/EC VI = 4,0%



ACCESSORIES RKP01M

STAD01

Room temperature probe



SPARE PARTS FOR RKP01M

STLD01

Temperature probe for liquid and air 10k Ohm, 2 m cable (works with ACAD02)



STED01

External temperature probe

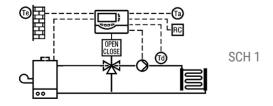


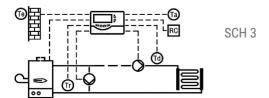
ACAD02

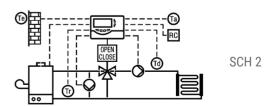
Pipe clamp for supply and return probe

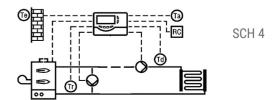


RKP01M CLIMATE REGULATOR: TYPICAL WIRING









www.seitron.com

Catalog 2021 Rev.00 155

TT401M

Sonde: non incluse



Black bulb probe STBD01

Room Temperature Probe

STAD01

4 Cannels Reset

ACCRES04

ACAD02

Pipe clamp for supply and return probe

MULTIZONES PROGRAMMABLE THERMOSTAT CONTROL FOR RADIANT TUBES UP TO 4 ZONES 8 TUBES IN DIN CASE

Digital microcontroller based regulator for radiant tubes for DIN rail mount: controls up to 8 radiant tubes by regulating according to the temperature acquired from the sensors (zones). Programmable thermostat over 4 adjustable temperature levels (off, antifrost, economy, comfort) and weekly programs up to 7 daily sets. Manual operation allowed for each temperature level.

TECHNICAL FEATURES

Power supply 230V~ -15% +10% 50Hz

Electrical absorption < 3.2VA

Sensore NTC (10K 0hm@25°C)
Regulation range Comfort: +5°C .. +35°C
Reduced: -5°C .. +25°C

Antifreeze: -5°C .. +15°C

Accuracy \pm 1° CResolution0.2°CHysteresis0.2°C

Contacts rating $8 \times 2 (1) \land @ 250V \sim SPST$ Relays rating $1 \times 5 \land 250V \sim \cos \varphi = 1$

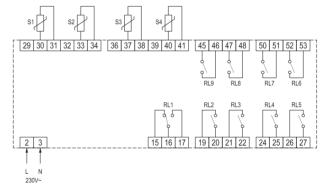
SPDŤ)

Protection grade IP 30 mounted in frame

Operating temperature $0^{\circ}\text{C} ... 40^{\circ}\text{C}$ Storage temperature $-10^{\circ}\text{C} ... +50^{\circ}\text{C}$

Humidity limits 20% .. 80% RH non condensing Size 157 x 90 x 71 mm (W x H x D)

Weight 685 g Class Reg.2013/811/EC I = 1,0%



156

FUEGO 000CCI



FIREPLACE CONTROLLERS

Fireplace control for 3 modules junction boxes. Water temperature adjustment with knob. LED indication and acoustic alarm for water overtemperature. Relay outputs driving a circulation pump and a grill. Plastic colour: RAL 7016.

TECHNICAL FEATURES

Power supply 230V~ -15/+10% 50Hz Output (relay) 5A @ 250V~ SPST (max. tot.) Sensor NTC (4k7 0hm @ 25°C)

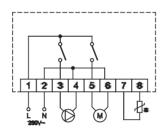
Working range 30 .. 90°C Red LED indicator Pump active Green LED indicator Grill on

8 LED thermometer 20 .. 90°C Water temperature Buzzer alarm Temp. H20>90°C

Anti-frost 5°C Slide switch Off/on/grill IP rating IP20

H110 W60 D56mm **Dimensions**

Class Reg.2013/811/EC I = 1.0%



Notes: (2) Delivered with NTC probe with 1,5 m of cable (STL NTS A 150) and POZ 001 pocket.

NON FITTING PLATES: (B-TICINO)

> FITTING PLATES BRAND BTICINO® VIMAR® ΔVF®

FUEGO 2 CIE001MD



FIREPLACE CONTROLLERS

Fireplace control for 3 modules junction boxes. Heating and sanitary water temperature adjustment with two knobs. LED indication and acoustic alarm for water overtemperature. Relay outputs driving a circulation pump, a valve and a grill. Plastic colour: RAL 7016.

TECHNICAL FEATURES

230V~ ±10% 50..60Hz Power supply

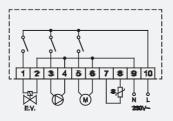
Output (relay) 2x 5A @ 250V~ SPST (max. tot.) Sensor NTC (4k7 0hm@25°C)

Working range:

30 .. 90°C/50 .. 70°C heating/sanitary water

Red LED indicator Pump active Green LED indicator Grill on Red LED indicator Valve open 7 LED thermometer 20 .. 90°C Water temperature Buzzer alarm Temp. H20>90°C Slide switch Off/on/grill **Dimensions** H110 W60 D56mm

IP rating **IP20** Class Reg. 2013/811/EC I = 1.0%



Notes: (2) Delivered with NTC probe with 1,5 m of cable (STL NTS A 150) and POZ 001 pocket.

NON FITTING PLATES: (B-TICINO)

FITTING PLATES: MARCA BTICINO® VIMAR® AVE®

TAG02M



Room Temperature Probe STED01

Room Temperature Probe STAD01

Black bulb probe STBD01

Room Temperature Probe STLD01

WEEKLY DIGITAL CHRONOTHERMOSTAT IP54

230V wall-mounted digital weekly thermostat in IP54 version, with 3-level temperature adjustment (Comfort, Reduced, Off / Antifreeze). Large backlit display. Remote probe. Reset circuit for burners with blocking signal and Reset button electrically separated from the thermostat. 2 relay outputs in sequence plus one fan relay output.

Typical application for greenhouse.

TECHNICAL FEATURES

Power supply $230V \sim -15 / + 10\% 50Hz$

Working range 0 .. + 85 ° C

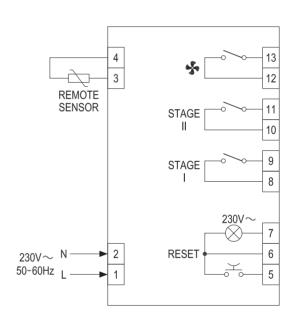
Contacts (relays) 3 x 5 (1) A @ 250V ~ SPST

NTC sensor (10K0 0hm @ 25 ° C Beta 3977)

Differential 1 ° C

Indication red LED Burner block

Degree of protection IP54 Class Reg.2013 / 811 / CE I = 1.0%



158

TEMPERATURE PROBES FOR LIQUIDS AND AIR



STLNTSA150

Sensor NTC, Working Range: -25 .. +125°C, Resistance=4k7 Ohm±2% @ 25°C, β 25/75=3977 K, Protection: IP65, Dimensions: P6xL25mm

STLOTSA150

Sensor NTC, Working Range: -25 .. +125°C, Resistance=R=100k Ohm±1% @ 25°C, β =4190 K, Protection: IP65. Dimensions: P6xL25mm

STLD01

Sensor NTC, Working Range: -25 .. +125°C, Resistance=10k Ohm±1% @ 25°C, β 25/85=3977 K, Protection: IP65, Dimensions: P6xL25mm

STLPTSA150

Sensor PTC, Working Range: -25 .. +125°C, Resistance=R=2k Ohm @ 25°C, Protection: IP65. Dimensions: P6xL25mm

BLACK BULB PROBE, WALL MOUNTING



STBPS003

Sensor PTC, Working Range: -20 .. +70°C, Resistance=2k Ohm @ 25°C, Protection: IP54, Dimensions: A154xL79xP84mm

STBD01

Sensor NTC, Working Range: -20 .. +70°C, Resistance=10k Ohm @ 25°C, β 25/85=3977 K, Protection: IP54, Dimensions: A154xL79xP84mm

ROOM TEMPERATURE PROBE, WALL MOUNTING



Sensor NTC, Working Range: 0 .. +50°C, Resistance=4k7 Ohm±2% @ 25°C, β 25/85=3977 K, Protection: IP30, Dimensions: A85xL85x P31mm

STAD01

Sensor NTC, Working Range: 0 .. +50°C, Resistance=10k Ohm±2% @ 25°C, β25/85=3977 K, Protection: IP30, Dimensions: A85xL85x P31mm

STAOP3

Sensor NTC, Working Range: $0...+50^{\circ}$ C, Resistance=R=100k Ohm±1% @ 25°C, β 25/50=4250 K - β 25/85=4315 K, Protection: IP30, Dimensions: A85xL85x P31mm

STAPP3

Sensor PTC, Working Range: 0 .. +50°C, Resistance=R=2k Ohm @ 25°C, Protection: IP30,

Dimensions: A85xL85x P31mm

OUTDOOR TEMPERATURE PROBE



STENS

Sensor NTC, Working Range: -20 .. +60°C, Resistance=4k7 Ohm±2% @ 25°C, Protection: IP65, Dimensions: A50xL52xP35mm

STEPS

Sensor PTC, Working Range: -20 .. +60°C, Resistance=2k Ohm @ 25°C, Protection: IP65, Dimensions: A50xL52xP35mm

STEOS

Sensor NTC, Working Range: -20 .. +60°C, Resistance=100k Ohm±1% @ 25°C, β 25/50=4250 K - β 25/85=4315 K, Protection: IP65, Dimensions: A50xL52xP35mm

www.seitron.com Catalog 2021 Rev.00 159

SEITRON CUSTOMER CARE AND WARRANTY

Seitron is always at your disposal for any unmatched technical & application assistance, both pre and after-sales support.

Our skilled and experienced personnel are here to provide step-by-step support in every aspect of your application from research, purchase, problem resolution and technical support.



RETURN AUTHORIZATION

Contact service@seitron.it to request your return authorization number (RMA), indicating the following details:

- Item code number
- Manufacturing date (see the label on the product)
- Sales invoice number
- Detected malfunctioning and eventual performed tests

Once you get the RMA, please indicate it on the delivery note and ship the goods to our Service Headquarter. The transport costs will be the responsibility of the sender.

After an accurate technical check, Seitron will repair or replace the products covered by the warranty, shipping them back to the customer free of charge.



With the purpose of a continuous product development, Seitron reserves the right to modify technical and performance details without prior notice. Visit our website www.seitron.com to always find the last release of technical specifications, manuals and catalogues.

WARRANTY TERMS AND CONDITIONS

Seitron offers a variable warranty period, starting from the date the product was sold.

CATEGORY	WARRANTY
Combustion analyzers (Novo)	48 MONTHS
Combustion analyzers (Chemist 100 Be Green)	24 MONTHS
Combustion analyzers (Chemist 500 / 500 Be Green)	48 MONTHS
Combustion analyzers (Chemist 600 / 600 Be Green)	12 MONTHS
Combustion analyzers (Chemist 900 / 900 Rack)	12 MONTHS
Portable instruments	24 MONTHS
Smart Home	36 MONTHS
Thermostats	36 MONTHS
Thermostats / Connection box	36 MONTHS
Via radio	36 MONTHS
Thermostats for fan coil	36 MONTHS
Residential gas safety	36 MONTHS
Industrial gas safety	24 MONTHS
Solar regulators	36 MONTHS
Climate regulators	36 MONTHS

Accidental breaking or damages caused by natural events, transport, inappropriate use or a use non-compliant with the product instructions are not covered by the warranty. Each misuse, repair or any modification not expressly authorized by Seitron void the warranty.

www.seitron.com Catalog 2021 Rev.00 161

PRODUCT INDEX

CODICE	DAC	FUDO
	PAG	EURO
000CCI	157	81
AACADX005	-	6
AACAL04	-	45
AACBF01	-	14
AACCT01	-	164
AACCV03	-	10
AACE01	39	1.800
AACEX01	39	220
AACFA01	41	37
AACKP01	38	39
AACNI01	-	12
AACP01	39	690
AACPB02	-	44
AACPB05	-	50
AACPB06	-	60
AACPB07	-	59
AACR10	42	188
AACRC01	-	5
AACSA04	-	88
AACSE05	36	575
AACSE06	36	634
AACSE07	36	249
AACSE10	36	556
AACSE12	36	549
AACSE13	44	887
AACSE14	44	887
AACSE15	44	245
AACSE17	44	999
AACSE18	44	999
AACSE19	44	134
AACSE20	44	411
AACSE24	44	572
AACSE25	44	656
AACSE26	44	999
AACSE28	44	999
AACSE35	44	997
AACSE39	44	556
AACSE44	44	404
AACSE47	44	1.120
AACSE50	44	186
AACSE56	44	1.040
AACSE57	44	1.250
AACSE58	44	352
AACSE60	44	394
AACSE72	44	1.250
AACSE73	44	1.291
AACSE78	44	1.450
	44	
AACSM03 AACTA03A	/1	89
	41	61
AACTO01	38	63

CODICE	PAG	EURO
AACTO02	38	58
AAFA03	41	95
AAFS01	41	284
AAFS02	41	337
AAKA02	39	95
AAKT05	38	292
AAPB01	41	59
AAPB13	41	47
AAPM02	39	353
AAPT07	37	263
AAPT08	37	205
AAPT09	37	211
AAPT10	37	287
AAPT11	37	327
AARA01	38	37
AARA02	38	25
AARC09	40	6
AARC10	40	6
AASA05	-	83
AASA08	38	84
AASF51A	36	274
AASF62A	36	295
AASF65A	36	446
AASF66A	36	530
AASF71A	36	197
AASF72A	36	214
AASG01	38	84
AASJ02	37	226
AASJ05	37	216
AASL05A	36	357
AASM05	_	62
AASM06	42	86
AASM07	42	47
AASM10	42	75
AASP01	39	268
AAST04	40	259
AATL01	39	335
AATT01	38	559
AATT02	38	608
ACAD02	155	16
ACAD05	137	100
ACAD06	137	149
ACAL10	134	80
ACCCHIAVE01	40	10
ACCRES04	146	101
ACCRICO001	140	101
	143	746
ACCSBI 220		
ACCSRL220	143	179
ACIM01	117	164
ACIMB2	135	191

CODICE	PAG	EURO
ACIR01	137	77
ACIV01	134	73
ACIW01	150	66
ACKB01	77	11
ACKB02	77	12
ACMC01	128	110
ACMC08	137	155
ACMG01	128	65
ACMG02	137	123
ACMG04	137	226
ACMG07	137	220
ACMM01	128	65
ACMM02	137	112
ACMM04	137	226
ACMW07 ACMV02	137	220 123
	137	226
ACMV04	137	
ACMV07	137	257
ACSR01	143	208
ACTP01	137	12
AJCR01	14	275
AJEX01	15	220
AJKA02	14	95
AJPB01	14	75
AJPT01	15	225
AJPT02	15	255
AJPT03	15	445
AJPT04	15	555
AJSJ01	15	125
AJTA01	14	75
AJTB01	15	30
ALC006M	71	98
ALC006U	71	70
ALC012M	72	186
ALC012U	72	110
ALCD08M02	75	231
ALCD08M0M	74	185
ALP03U	76	109
ALP06U	73	60
CER006	48	50
CER008	48	50
CER012	34	155
CER013	34	175
CER014	34	250
CER017	50	50
CHEMIST 101 BE GREEN	19	900
CHEMIST 101 S BE GREEN	19	1.115
CHEMIST 102 BE GREEN	19	1.530
CHEMIST 102 S BE GREEN	19	1.745
CHEMIST 103 BE GREEN	19	2.075

CODICE	PAG	EURO
CHEMIST 103 S BE GREEN	19	2.295
CHEMIST 500 X	21	3.000
CHEMIST 500 X BE GREEN	21	3.000
CHEMIST 502	21	3.554
CHEMIST 502 B	21	2.800
CHEMIST 502 B BE GREEN	21	2.700
CHEMIST 502 BE GREEN	21	3.502
CHEMIST 502 BS BE GREEN	21	2.800
CHEMIST 502 C	21	3.971
CHEMIST 502 C BE GREEN	21	3.919
CHEMIST 503	21	4.079
CHEMIST 503 B	21	3.350
CHEMIST 503 B BE GREEN	21	3.250
CHEMIST 503 BE GREEN	21	4.027
CHEMIST 503 BS BE GREEN	21	3.350
CHEMIST 504 N	21	5.060
CHEMIST 504 N BE GREEN	21	5.008
CHEMIST 504 S	21	5.060
CHEMIST 504 S BE GREEN	21	5.008
CHEMIST 600 X	25	3.157
CHEMIST 600 X BE GREEN	25	3.103
CHEMIST 605	25	6.557
CHEMIST 605 BE GREEN	25	6.503
CHEMIST 606 CO2	25	8.743
CHEMIST 606 CO2 BE GREEN	25	8.689
CHEMIST 606 HC	25	7.286
CHEMIST 606 HC BE GREEN	25	7.231
CHM1580001	128	13
CIE001MD	157	87
CON009	34	400
CON010	34	450
CON011	34	530
DA0311	96	95
DA0411	86	82
DA0421	86	88
DCD01B	82	110
DCW01B	82	115
DDGSM1	124	145
DDMSM1	124	145
DLP241M	89	112
DLP441M	89	154
DLP8412	91	332
DLP841M	90	158
DRG01M	125	98
DRG02M	125	154
DRR01M	84	88
DRR02M	84	98
DRR32M	56	99
DRR42M	85	113
DTD31B	53	148
I	-	-

CODICE	PAG	EURO
DTPF85BC	83	55
DTPF85BCT	83	65
EVGNAFM032	144	130
EVGNAFM040	144	130
EVGNAFM050	144	167
EVGNCFM032	144	156
EVGNCFM040	144	174
EVGNCFM050	144	164
EVGPAFM015	144	62
EVGPAFM020	144	62
EVGPAFM025	144	80
EVGPCFM015	144	108
EVGPCFM020	144	108
EVGPCFM025	144	130
GCW01MR	54	189
GCW02MR	54	189
GIW01MR	55	189
GIW02MR	55	189
GS001M	57	110
IFMEI1M	108	38
KCR005	81	198
KCR006	81	204
KCS009	151	669
KDG5R00019	114	164
KDG5R00020	114	224
KDGPR00002	122	247
KDGPR00016	122	247
KDGPR00017	122	219
KDGPR00018	122	286
KDM5R00021	114	164
KDM5R00022	114	224
KDMER00008	122	247
KDMER00014	122	219
KDMER00015	122	286
KGG001	127	243
KGM001	127	243
KTR005	81	166
KTY001	52	269
KV0001	48	1.161
KV0001	48	976
Novo 2	9	2.900
Novo 2P	9	3.000
Novo 2ST	9	3.000
Novo 3	9	3.490
Novo 3P	9	3.590
Novo 3P	9	3.590
Novo 4N	9	5.300
THE PARTY CANA	9	5.300
		E 200
Novo 4S Novo 4PN	9	5.300 5.400

CODICE	PAG	EURO
Novo X	9	3.200
Novo XP	9	3.300
NoVO CH4 NDIR	16	1.295
NoVO CO High	16	999
NoVO CO/H2	16	560
NoVO CO Mid	16	999
NoVO CO2 NDIR	16	1.295
NoVO CxHy	16	620
NoVO H2	16	1.250
NoVO H2 High	16	1.450
NoVO H2S	16	1.250
NoVO H2S Low	16	997
NoVO NH3 Low	16	1.040
NoVO NO	16	595
NoVO NO2	16	950
NoVO NO2	16	405
NoVO SO2	16	950
POLF02	49	346
PORFLU	50	346
PORMDZBI	48	253
PORRDZBI	49	284
POTK01	50	226
RDCBA1	113	176
RDXSM1	121	244
RGDCK5MP1S	113	169
RGDCM0MP1	114	
RGDCOHMP11	119	
RGDCOKMP1	120	176
RGDGP5MP1R	112	96
RGDGP5MP1T	112	102
RGDGPLMP1R	120	117
RGDME5MP1R	111	96
RGDME5MP1T	111	102
RGDMETMP1R	118	117
RGI000LBXD	141	182
RGI000MBX2	141	132
RGI000MSX4	140	452
RGI001MSX2	140	128
RGICO0L42	142	226
RGIGP1MSX2	139	188
RGIME1MSX2	139	188
RIG01RM	139	233
RIM01RM	139	233
RKP01M	154	293
RXA01M	136	331
RYB01M	116	261
RYK01M	135	266
RYM02M0	134	504
RYM02M1	134	463
RYM02M2	134	401

CODICE	PAG	EURO
SGAGPL	128	94
SGAMET	128	94
SGIGP1	142	113
SGIGP1M	142	155
SGIME1	142	113
SGIME1M	142	155
STAD01	155	12
STANP3	159	19
STAOP3	159	19
STAPP3	159	15
STBD01	159	52
STBPS003	159	39
STED01	155	33
STENS	159	48
STEOS	159	24
STEPS	159	41
STLD01	155	10
STLDEIM150	150	7
STLDESL150	150	12
STLMTIM150	150	12
STLMTSL150	150	17
STLNTSA150	159	9
STLOTSA150	159	7
STLPTSA150	150	9
STSKC01	50	81
STSKL01	50	41
SWGX1411	132	382
SWHX1211	132	420
SWMX1411	132	382
SWVX1411	132	382
SXCX11M1Y	132	395
SXGX14M1Y	132	414
SXGX14W11	132	506
SXMX14M1Y	132	414
SXMX14W11	132	506
SXVX14M1Y		
	132	414
SXVX16M1Y	132	506
SYCN01R	133	271
SYCN21B	133	267
SYCN51B	132	333
SYGN04R	133	295
SYGN06R	133	340
SYGN24B	133	239
SYGN26B	133	327
SYGN54B	132	355
SYMN04R	133	295
SYMN06R	133	340
SYMN24B	133	239
SYMN26B	133	327

CODICE	PAG	EURO
SYVN04R	133	295
SYVN06R	133	340
SYVN24B	133	239
SYVN26B	133	327
SYVN54B	132	355
TAD022	64	46
TAD02B	64	44
TAD02M	64	47
TAEZN42C	66	72
TAEZN4MC	66	72
TAG02M	158	105
TAN012	66	33
TAN01M	66	41
TAS042	65	36
TAS042T	65	37
TAS04M	65	34
TAS04MT	65	36
TAS052	65	30
TAS052T	65	31
TAS05M	65	46
TAS05MT	65	45
TCD01B	61	95
TCD02B	60	113
TCEGIOBI03	61	83
TDST24M	148	203
TFA01M	106	101
TFD01M	101	61
TFEINF	107	108
TFF01M	103	119
TFM01M	102	93
TFZ01M	104	103
THW01B	62	194
THW02B	62	194
TM001M	67	24
TM002M	67	31
TM003M	67	32
TM004M	67	41
TRD02B	83	77
TRD03B	96	88
TST01M	147	114
TST12M	149	245
TT401M	156	333
TTM003MI	108	8

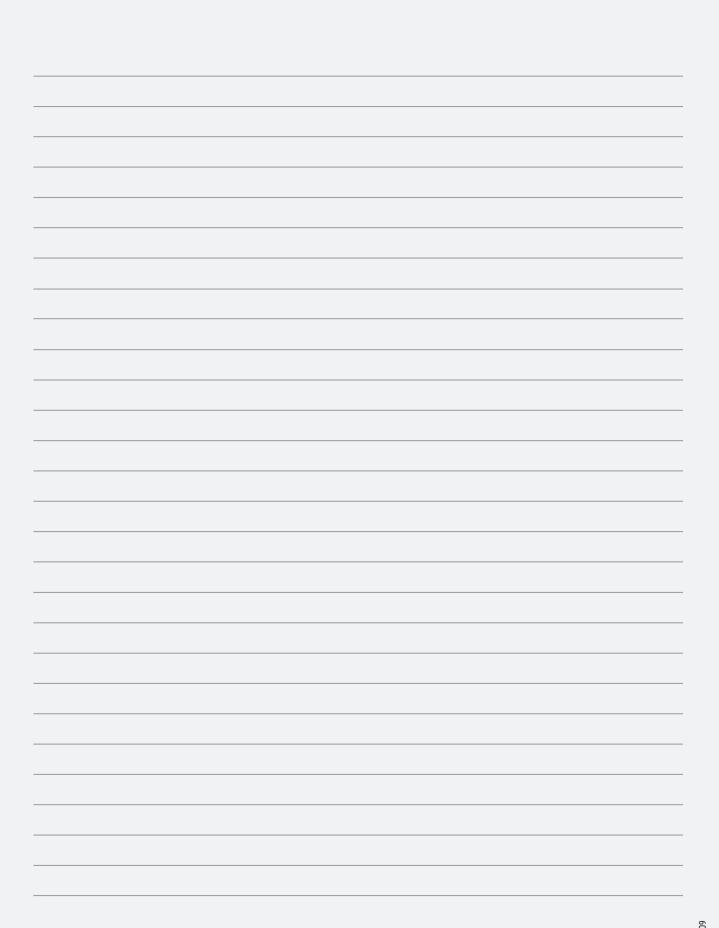
163

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355

132

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