



S+S REGELTECHNIK



RYMASKON®

BUS-CAPABLE ROOM CONTROL UNITS
FOR INDIVIDUAL ROOM CONTROL

EFFICIENT, INTERCONNECTIVE AND CONVENIENT

PRODUCT RANGE 2022



JAHRE GARANTIE
★★★★★
YEARS WARRANTY

MADE IN GERMANY

BUS



FÜHLBARE PRÄZISION

CHARACTERISTICS

- > Modbus RTU interface (RS485)
- > Integrated **temperature and humidity sensors**
- > 3 digital and 1 universal input
- > Compact housing (94.5 x 110 x 19.5 mm)
- > Programmable **LCD** multifunctional display with RGB backlighting configurable in colour (7 predefined settings possible), intensity and overall brightness
- > 4 to 8 touch **function buttons**
- > International symbols
- > Menu-driven configuration
- > **Buzzer** for operating tone, error and alarm warnings
- > Infrared proximity sensor

THE COMPACT RYMASKON® 200-Modbus

Type 212



Type 222



Type 232



Type 242



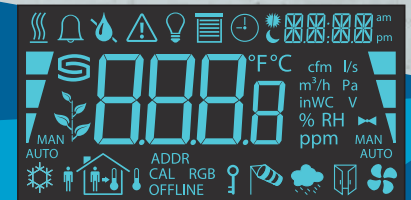
Type 252



Type 262



Display symbols
RYMASKON® 200-Modbus



RYMASKON® 200-Modbus Room Controller for Room Automation							
Type / WG02	Communication	Keys	Control	Color	Display	Item No.	Price
RYMASKON® 210-Modbus							
RYMASKON 211	RS485, NFC, NEC	4	T - - - R M	black	■	1901-5111-3011-001	319,89 €
RYMASKON 212	RS485, NFC, NEC	4	T - - - R M	white	■	1901-5111-3012-001	331,17 €
RYMASKON® 220-Modbus							
RYMASKON 221	RS485, NFC, NEC	6	T V - - R M	black	■	1901-5111-3011-002	319,89 €
RYMASKON 222	RS485, NFC, NEC	6	T V - - R M	white	■	1901-5111-3012-002	331,17 €
RYMASKON® 230-Modbus							
RYMASKON 231	RS485, NFC, NEC	8	T V - L R M	black	■	1901-5111-3011-003	319,89 €
RYMASKON 232	RS485, NFC, NEC	8	T V - L R M	white	■	1901-5111-3012-003	331,17 €
RYMASKON® 240-Modbus							
RYMASKON 241	RS485, NFC, NEC	8	T - S L R M	black	■	1901-5111-3011-004	319,89 €
RYMASKON 242	RS485, NFC, NEC	8	T - S L R M	white	■	1901-5111-3012-004	331,17 €
RYMASKON® 250-Modbus							
RYMASKON 251	RS485, NFC, NEC	8	T V S - R M	black	■	1901-5111-3011-005	319,89 €
RYMASKON 252	RS485, NFC, NEC	8	T V S - R M	white	■	1901-5111-3012-005	331,17 €
RYMASKON® 260-Modbus							
RYMASKON 261	RS485, NFC, NEC	8	T V S L - M	black	■	1901-5111-3011-006	319,89 €
RYMASKON 262	RS485, NFC, NEC	8	T V S L - M	white	■	1901-5111-3012-006	331,17 €
Control:	T = Temperature S = Sun screens		V = Ventilation L = Lights	R = Room occupancy M = Menu			

THE SELF-SUFFICIENT

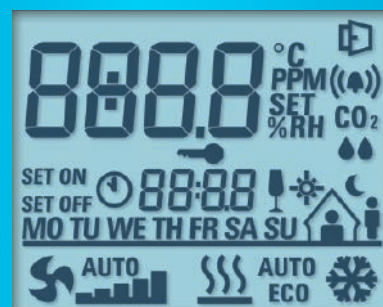
RYMASKON® 400-Modbus



CHARACTERISTICS

- > Modbus RTU interface (RS485)
- > Integrated **temperature sensor**
- > 2 digital inputs and
2 digital or analogue outputs
- > Suitable for decentralised individual room control
- > Flat housing (88 x 173 x 15.5 mm)
with **glass front** panel in piano lacquer finish
- > Programmable **LCD** multifunctional display
with dimmable backlighting
- > Menu-driven configuration
via recessed **rotary encoder**
with input button
- > 6 freely assignable touch **function buttons**
- > International symbols
- > Infrared proximity sensor

Display symbols
RYMASKON® 400-Modbus



RYMASKON® 400-Modbus Room Controller for Room Automation

Type / WG02	Communication	Output	Colour	Display	Item No.	Price
RYMASKON® 410-Modbus						
RYMASKON 411	RS485	2x (analogue) 0-10 V	black	■	1901-5121-2101-000	513,77 €
RYMASKON 412	RS485	2x (analogue) 0-10 V	white	■	1901-5121-2102-000	513,77 €
RYMASKON® 420-Modbus						
RYMASKON 421	RS485	2x (digital / PWM)	black	■	1901-5121-2201-000	513,77 €
RYMASKON 422	RS485	2x (digital / PWM)	white	■	1901-5121-2202-000	513,77 €

PWM = pulse width modulation

Note: For detailed information, see the catalogue or online shop!

THE VERSATILE RYMASKON® 500 / 600 / 700



NEW

NEW ROOM CONTROL UNITS WITH TOUCH DISPLAY FOR INDIVIDUAL ROOM CONTROL

In addition to the previous **RYMASKON®** 200 and 400 series, three further innovative product ranges are available for room climate technology.

The new **RYMASKON®** 500 (Thermostat), 600 (Controller) and 700 (Interface) series are characterised by a wide range of configuration and application options. They are particularly suitable for networked applications and enable efficient control of the indoor climate in cross-building energy management systems in accordance with ISO 50001. Typical applications are heating and cooling systems, including cooling ceilings, floor heating and convector fans.

A **colour touch display** with international symbols enables settings to be changed on site according to needs. The user-friendly design in the flat, elegant housing blends harmoniously into any interior design.

RYMASKON® Comparison table (basic model)		Type 510 Thermostat	Type 610 Controller	Type 710 Interface
Outputs	Relay output for heating / cooling	1	–	Bus
	Analogue output (0–10 V) Heating / cooling 6-way valves, fan	–	3	Bus
Function	Sun protection (max. 2 zones)	●	● ●	● ●
	Light / room lighting (1 zone)	–	●	●
	Air Conditioning (1 Zone)	●	–	●
Sensors	Temperature (°C / °F)	●	●	●
	Humidity (% RH)	●	●	●
	CO ₂ (ppm)	–	○	○
Inputs	Digital input	1	1	1
	Analogue input (0...10V)	–	2	–
	Resistance input (NTC10K)	2	–	2
More type versions in various configurations available upon request!				○ = optional

CHARACTERISTICS

- > Controls of heating and cooling valves, even 6-way valves
- > Fan control (EC fan, fan speeds)
- > Air conditioning and interior light control (on/off) in one zone
- > Sun protection control (shutters, blinds) in max. 2 zones
- > Integrated sensors for temperature, humidity and CO₂ (optional)
- > Connection option for two external temperature sensors (NTC10K)
- > RS485 interface for Modbus RTU or BACnet
- > Different channel configurations and other type versions available upon request
- > Elegant, flat housing in white for assembly on standard in-wall flush box
- > 3.5" touch display (approx. 50x75 mm; 255,000 colours, resolution of 320x480 pixels) with background lighting
- > Graphic user interface with intuitive symbols
- > Configuration tool for convenient setting and transfer of the operating and function parameters

RYMASKON® 500 Thermostat

The thermostat directly regulates the **heating or cooling valve** via the relay.

The **sun protection** (shutters, blinds) can be controlled in one zone via the bus.

It is also possible to control an **air conditioning** (AC) in one zone.

In addition to the integrated sensor, two **external temperature sensors** (NTC10K) can be connected.



RYMASKON® 500 / 600 / 700 STATUS DISPLAYS

- | | |
|-------|---------------------|
| °F/°C | TEMPERATURE UNITS |
| | DISPLAY LOCK |
| | ALARM (INFORMATION) |
| | BUS NOTIFICATION |
| | FROST PROTECTION |
| | ECO MODE |
| | OFF MODE |
| | PARTY MODE (BOOST) |
| | CLEANING MODE |

RYMASKON® 500 / 600 / 700 SENSORS

Room
20.1
°C
Room temperature
[°C/°F]

Outside
10.5
°C
External temperature
[°C/°F]

Humidity
45
%RH
Relative humidity
[%RH]

RYMASKON® 500 FUNCTIONS



Sun protection
(1 zone)



Air conditioning
(1 zone)

RYMASKON® 600 Controller

The controller regulates up to two **heating or cooling valves** and 6-way valves or fans (blower speeds, EC ventilator) via analogue outputs (0-10 V).

The **sun protection** (shutters, blinds) can be controlled in max. two zones via the bus.

Instead of a sun protection zone, a **light** zone can be alternatively controlled.



RYMASKON® 700 Interface

The interface controls **heating or cooling valves, fans** (blower speeds) and the **sun protection** (shutters, blinds) in max. two zones.

Alternatively a **light** zone and/or an **air conditioning** (AC) can be controlled.

In addition to the integrated sensors, two **external temperature sensors** (NTC10K) can be connected.



RYMASKON® 600 FUNCTIONS



Sun protection
(max. 2 zones)



Light
(1 zone)



Fan
(blower speeds,
automatic/manual)

RYMASKON® 600 with CO2 SENSOR

CO2
700
ppm

CO2 content
[ppm]

CO2
950
ppm

Alarm 1
configurable

CO2
1300
ppm

Alarm 2
configurable

RYMASKON® 700 with CO2 SENSOR

CO2
700
ppm

CO2 content
[ppm]

without alarm levels

RYMASKON® 700 FUNCTIONS



Sun protection
(max. 2 zones)



Air conditioning
(1 zone)



Light
(1 zone)

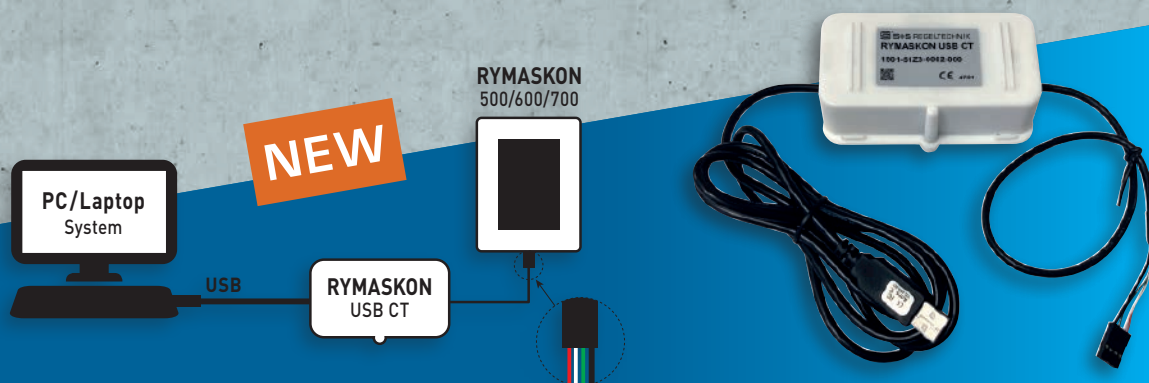


Fan
(blower speeds,
automatic/manual)

RYMASKON® USB-CT Configuration Tool

An existing configuration can be quickly and easily transferred to other devices.

To do this, you need the Configuration Tool including software.
The device settings can be read out and transferred to other devices by means of a PC.



Type / WG02 Basic model	Communi- cation	Measuring element	Control system	Colour	Display	Item No.	Price
RYMASKON® 510 Thermostat							
Rymaskon 512-MOD-RH	Modbus	T RH	T S I K	white	■	RYM5-10TM-2102-000	253,80 €
Rymaskon 512-BAC-RH	BACnet	T RH	T S I K	white	■	RYM5-10TB-2102-000	253,80 €
Channel configuration:	2RI 2 resistance inputs (NTC10K) for external temperature sensors 1DI 1 digital input (potential-free) 1RO 1 relay output (7 A), (2-point regulation)						
RYMASKON® 610 Controller							
Rymaskon 612-MOD-RH-AI	Modbus	T RH	T V 2S L	white	■	RYM6-10CM-2112-000	376,92 €
Rymaskon 612-MOD-RH-CO2-AI	Modbus	T RH CO2	T V 2S L	white	■	RYM6-10CM-2312-000	538,92 €
Rymaskon 612-BAC-RH-AI	BACnet	T RH	T V 2S L	white	■	RYM6-10CB-2112-000	376,92 €
Rymaskon 612-BAC-RH-CO2-AI	BACnet	T RH CO2	T V 2S L	white	■	RYM6-10CB-2312-000	538,92 €
Channel configuration:	2AI 2 analogue inputs (0–10 V DC) instead of 2RI 1DI 1 digital input (potential-free) 3AO 3 analogue outputs (0–10 V DC) for heating, cooling, fan						
RYMASKON® 710 Interface							
Rymaskon 712-MOD-RH	Modbus	T RH	T V 2S L K	white	■	RYM7-10IM-2102-000	322,92 €
Rymaskon 712-MOD-RH-CO2	Modbus	T RH CO2	T V 2S L K	white	■	RYM7-10IM-2302-000	441,72 €
Rymaskon 712-BAC-RH	BACnet	T RH	T V 2S L K	white	■	RYM7-10IB-2102-000	322,92 €
Rymaskon 712-BAC-RH-CO2	BACnet	T RH CO2	T V 2S L K	white	■	RYM7-10IB-2302-000	441,72 €
Channel configuration:	2RI 2 resistance inputs (NTC10K) for external temperature sensors 1DI 1 digital input (potential-free) 1RO 1 relay output (7 A), (2-point regulation)						
Measuring element / control system:	T = temperature sensor (basic equipment) RH = humidity sensor CO2 = carbon dioxide sensor T = temperature V = fan S = sun protection (max. 2 zones) L = light K = air Conditioning (AC)						
Optional:	More type versions available upon request! For configuration options, see the catalogue (number key) or online shop.						
RYMASKON® USB-CT Configuration Tool (Accessories)							
RYMASKON USB_CT	For quick transfer of the device configuration from the PC to all devices in the building For detailed information, visit the online shop!					1901-51Z3-0002-000	139,32 €



S+S REGELTECHNIK



S+S stands for a fully integral value chain. All products are designed, developed, manufactured and programmed in-house.

The new S+S company headquarters on a total area of 14,000 m² in Nordostpark on the outskirts of Nuremberg offers a seamlessly integrated production and development environment with excellent air and road links.



A PASSION FOR INNOVATION

S+S Regeltechnik defines itself as a flexible and reliable partner for your requirements, from the single device to networked facility and industry automation. To us, innovation means to lead the market both in technology and in quality. This is how we back up your investment in products that express our passion for precision.

BROAD PORTFOLIO

Our sensors, transmitters, thermostats, hygrometers, monitors, controllers and room climate controllers for facility and industry engineering are designed to be multifunctional. This reduces the diversity of types and expands their application potential. Thanks to microprocessor technology, almost any measuring range can be represented, including custom specifications.

SUPERIOR QUALITY & CERTIFIED SAFETY

All devices are function tested as well as calibrated in-house prior to shipment and meet strict safety, quality and sustainability standards.

You can find technical data and further information in our web shop or catalogue.

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**Qualitätsmanagementsystem
ISO 9001**

- Kundenorientierung
- Kundenzufriedenheit
- Fortlaufende Verbesserung
- System- bzw. Prozesswirksamkeit

ID 15 100 21333

www.tuev-thueringen.de

Our development and production in Nuremberg, Germany, is certified by the Technical Inspection Authority (TÜV) in Thuringia to DIN EN ISO 9001:2015.



**DIN tested
and certified**



**RoHS tested
and certified**



**ESD compliant
manufacturing**



**EAC
certified**



**GOST certificates for
export of all S+S products
to CIS member states**



**CE compliant devices tested
by external laboratories**



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