



Thermostat for controlling and regulating temperature, light, air conditioning and the sun protection (1 zone), room control unit with colour touch display, with Modbus or BACnet connection



RYMASKON® 500































The  $RYM \text{ASKON} \ \ 500 \ / \ \ 600 \ / \ \ 700$  series of room control units are designed for controlling the climatic zone in residential, hotel and office rooms and individually regulate the heating/cooling steps of the internal rooms. A colour touch display with modern icons is used for the visual display and operation at the location. The product range is characterised by the variety of combination options of the individual components.

The  ${\bf RYMASKON^{\$}}$  500 Thermostat series regulates a heating or cooling valve directly through a relay. The sun protection (blinds, shutters) can be controlled in one zone via the bus. Through the appropriate symbols, it is possible to control the light and air conditioning instead of the sun protection. In addition to the integrated temperature sensor, two external temperature sensors (NTC10K) can also be connected. A measuring element for relative humidity is also available. The devices are used in room climate technology and heating/cooling systems, such as cooling ceilings and floor heating. Wall mounting is performed on standard in-wall flush boxes. The devices are optionally available with a Modbus or BACnet communication interface (optionally without communication) and in various type versions (see number key).

The basic model  ${\bf RYM} {\sf ASKON^{\circledR}}$  510 Thermostat with colour touch display (3.5"), in a white housing, possesses an integrated temperature and humidity sensor, 2 resistance inputs (for external NTC10K temperature sensors), 1 digital input, 1 relay output (7A) and optionally with a Modbus or BACnet connection. The room control units are used for controlling heating/cooling directly through the relay (2-point regulation) light, air conditioning and the sun protection (1 zone) via the bus.

TECHNICAL DATA	(Basic model)					
Device type:	room control unit with 2-point regulation					
Functions:	temperature, light, air conditioning and sun protection (1 zone)					
Communication:	Modbus RTU Slave address range can be configured between 1247 or BACnet MS/TP					
	device ID 65100 (default) and MAC address can be configured between 1127					
	RS 485 interface, max. 63 devices, 9600 / 19200 / 38400 / 57500 / 76800 Baud, none / even / odd parity, 1 / 2 stop bits					
Power supply:	24 V AC/DC (±15%)					
Power consumption:	max. 1.92 W					
Inputs:	2 resistance inputs (NTC10K)					
	for external temperature sensors					
	1 digital input (potential-free), impedance <1 kOhm					
Outputs:	1 relay output (2-point regulation)					
	7 A (resistive load);					
0	1.3 A (inductive load)					
Operating mode:	Comfort, ECO, OFF, Boost, Holiday, Frost Protection					
Control element:	3.5" touch display with background lighting, cut-out approx. 50 x 75 mm, resolution 320 x 480 pixels, 255,000 colours					
TEMPERATURE						
Sensor:	integrated temperature sensor					
Measuring range:	−40+125°C					
Accuracy:	typically ±0.5°C at +25°C					
HUMIDITY						
Sensor:	integrated humidity sensor					
Measuring range:	0100% RH					
Accuracy:	typically ±2% RH (2080% RH) at +25°C					
Electrical connection:	0.14 - 1.5 mm², via screw terminals					
Housing:	plastic, polycarbonate material, self-extinguishing, white colour (optionally black or chrome), weight approx. 220 g					
Housing dimensions:	approx. 88 x 112 x 14.5 mm (on-wall) approx. 52 x 53 x 28.5 mm (in-wall)					
Mounting:	wall mounting on in-wall flush box, Ø 55 mm					
Ambient temperature:	O+50°C (operation); -30+70°C (storage)					
Permitted humidity:	O95% RH, (non-precipitating air)					
Protection type:	IP 20 (according to EN 60 529)					
Standards:	CE conformity,					
	according to EMC directive 2004/108/EU, Low-Voltage directive 2006/95/EU, according to EN 61000-6-1/3, EN 60730-1, EN 6100-4-2/4/5/11					
ACCESSORIES	see table					

Sensors 20℃ Room temperature [°C] Outside **10**℃ External temperature [°C] Relative humidity

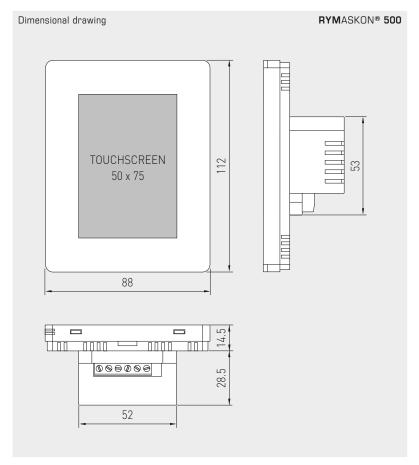
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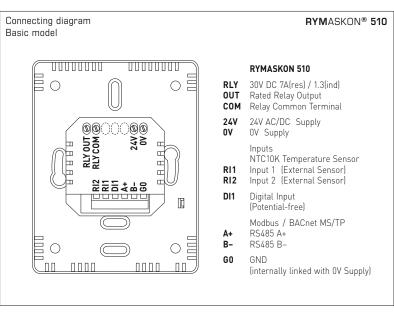


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Rev. 2022-V12 GB





S+S REGELTECHNIK

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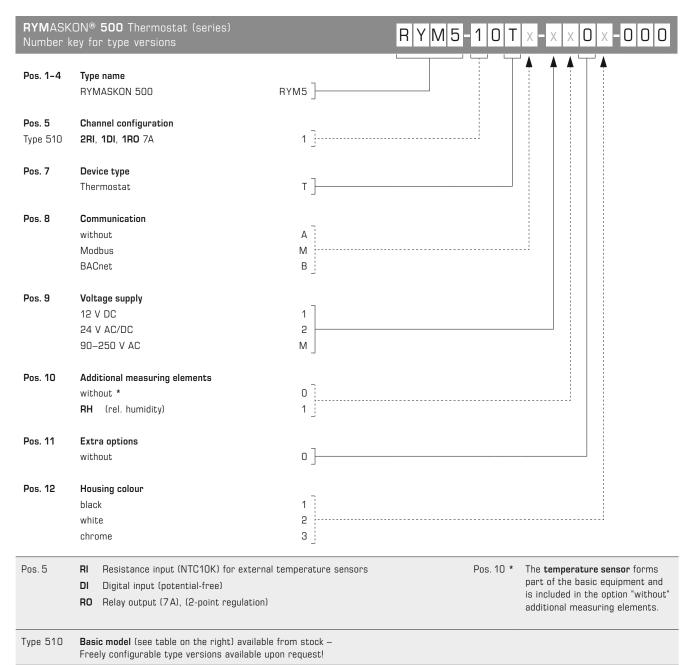












RYMASK Comparis	ON® (basic model) on table	<b>Type 510</b> Thermostat	<b>Type 610</b> Controller	<b>Type 710</b> Interface
Outputs	Relay output for heating/cooling	1	-	Bus
	Analogue output (0–10 V) Heating/cooling 6-way valves, fans	-	3	Bus
Function	Sun protection (max. 2 zones)	•	• •	• •
	Light / room lighting (1 zone)	-	•	•
	Air Conditioning (1 zone)	•	-	•
Sensors	Temperature (°C)	•	•	•
	Humidity (% RH)	•	•	•
	CO2 (ppm)	-	0	0
Inputs	Digital input	1	1	1
	Analogue input (0–10 V)	-	2	-
	Resistance input (NTC10K)	2	-	2
				○ = optional



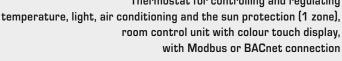
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**KEY FEATURES** 

Basic model type 510

• 24 V AC/DC voltage supply

- 3.5 inch touch display with background lighting
- Modbus or BACnet
- Wall mounting on standard in-wall flush boxes
- Integrated temperature sensor (basic equipment)
- Integrated humidity sensor
- Regulation of heating or cooling via relay (2-point regulator)
- Operation of temperature, light, air conditioning and sun protection (1 zone) via touch display
- 2 resistance inputs (NTC10K) for external temperature sensors
- 1 digital input (potential-free)
- 1 relay output (7 A), (2-point regulation)
- Operating modes Comfort (Normal), OFF, Boost, ECO, Holiday, Frost Protection





RYMASKON® 510	Thermostat (basic model), room control unit with touch display								
Type / WG02	Communi- cation	Measuring element	Control system	Colour [	Display	Item No.	Price		
RYMASKON® 510-Modbus									
Rymaskon 512-MOD-RH	Modbus	T   RH	TISILIK	white		RYM5-10TM-2102-000	253,80 €		
RYMASKON® 510-BACnet									
Rymaskon 512-BAC-RH	BACnet	T   RH	TISILIK	white		RYM5-10TB-2102-000	253,80 €		
Measuring element / control system:	(basi	perature sensor c equipment) idity sensor	<ul> <li>T = Temperature heating / cooling</li> <li>S = Sun protection</li> <li>L = Light</li> <li>K = Air Conditioning (AC)</li> </ul>						
Channel configuration:	<ul> <li>2RI 2 resistance inputs (NTC10K) for external temperature sensors</li> <li>1DI 1 digital input (potential-free)</li> <li>1RO 1 Relay output (7 A), (2-point regulation)</li> </ul>								
Optional:	More type versions available upon request! For configuration options, see number key (left).								
ACCESSORIES									
RYMASKON® USB Configurat	ion Tool								
RYMASKON USB_CT		sfer of the device of all devices in the	•			1901-51Z3-0002-000	139,32 €		

RYMASKON® 500

Home Screen





















