

RCE CLIMATIC REGULATOR

CLIMATIC REGULATOR KIT FOR MIXING UNITS



Components	Pcs
1 RCE climatic regulator	1
2 NTC temperature probes (*)	2
3 Probe-holder kit	1
4 Wall plug for display	1
5 Male/Female connector kit for display extension cable (connectors for 4-pin MSTB printed circuit boards)	1

(*) Use one of the two probes as flow temperature probe; the other probe is to be used as a return probe (when used in 'modulating' operation mode) or as outdoor probe (when operating in 'climatic' operation mode) in conjunction with the case provided separately.

CLIMATIC REGULATOR RCE

The RCE climatic regulator is an intelligent and automatic control system of all heating and air conditioning functions of small and medium-sized, both floor-assembled and/or radiant ceiling, and high temperature installations (radiators, fan coils), such as houses, apartments, offices, shops, etc., managing all the functions necessary for the climate control of the mixing system.

The regulator is also able to handle centralised systems in two different modes:

- with a single mixing valve in a thermal power plant;
- with a regulator and a mixing valve (mixing unit) in every apartment.

MAIN FUNCTIONS

- Only heating / Only cooling /Both
- High temperature (radiators)/ Low temperature (radiant panels)
- Flow temperature: Fixed point / Modulating / Temperature control
- Security function condensation in cooling mode
- Safety thermostat function
- System on/off via thermostats or home automation systems
- On/Off by remote command
- Season change from remote control

EN GENERAL FEATURES

- Power supply: 110-230 Vac \pm 10%, 50/60 Hz
- Double insulation
- Contacts capacity: 5A / 230 Vac
- Protection degree: IP20
- It can be fastened on DIN (EN 60715) rail according to DIN 43880 standard
- Regulator material: Self-extinguishing PPO
- Regulator colour: grey RAL 7035
- Size: 6 DIN modules (95 x 105 x 82 mm)
- Display material: PC/ABS
- Display colour: white
- Supplementing regulation (EU) n. 811/2013; annex IV-3 (only for EU countries):
- Class of the temperature control device: Class 3; Class III
- Contribution of the temperature control device to seasonal energy efficiency of environment heating in %: 1.5%

INPUTS AND OUTPUTS CLIMATE REGULATOR

- 2 analogic inputs for NTC temperature probes (flow temperature, return/ external temperature)
- 4 digital inputs free of voltage (heating/cooling/dehumidification consensus change of season, remote on/off, alarms)
- 1 digital output for the circulator
- 1 digital output for the generator consensus
- 1 output to a floating servomotor 3 points (the RCE regulator can manage only one servomotor)
- 1 analogic output to a modulating servomotor 0-10 V (the RCE regulator can manage only one servomotor)

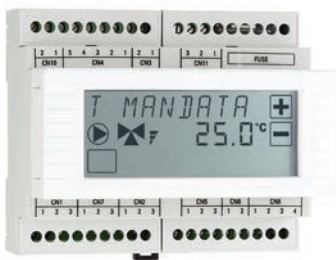
TECHNICAL DATA OF TEMPERATURE PROBES

- Type: NTC, 10K Ω at 25 °C; IP68
- Cable length: 3 m / probe length 50 mm / probe diameter 6 mm

TECHNICAL DATA OF THE WALL PLUG FOR DISPLAY

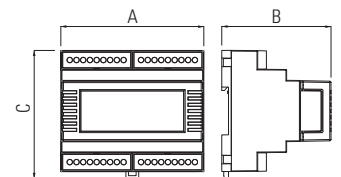
Fixing on 503 standard box

GP 2518
CLIMATIC REGULATOR



RCE Climatic regulator kit.

Available only on request.



CODE	A mm	B mm	C mm	Pack pcs/box
9951R503	105	82	95	1

GP 2730
HOUSING



Housing equipped with cable gland for external probe in white colour, self-extinguishing ABS.
Dimensions: 80x80x25 mm

Available only on request.

CODE	Pack pcs/box
9954R001	1

GP 2630
DEW SENSOR



Dew sensor.
To be used in the event that the climatic regulator RCE for mixing units operates also in cooling mode.
Order one dew sensor for each system delivery manifold.

TECHNICAL DATA
Power supply: 15 Vdc \pm 10%
RH% of intervention: 90-95%
Probe length: 1,5 m
Dimensions (LxHxP) 50x10x15 mm.

Available only on request.

CODE

**Pack
pcs/box**

28139078

1

GP 2630
CONVERTER



Converter for dew sensor.
To be used for central system operating also in cooling mode with one single mixing valve.
Order one converter for each zone valve installed per apartment for the heat transfer fluid to flow in the apartment.

TECHNICAL DATA
Power supply: 24 Vac \pm 10%; 50/60 Hz - Max. consumption 4.5 W
Contact capacity: 5 A / 230 Vac - Protection rating: IP20
Connected to DIN (EN 60715) guide in according to standards DIN 43880
Converter material: Self-extinguishing PPO - Converter colour: RAL 7035 grey
Dimensions: 2 DIN modules (95 x 35 x 58 mm).

Available only on request.

CODE

**Pack
pcs/box**

28139074

1

GP 2630
TRANSFORMER



Transformer 230/24 Vac 10 VA
To be used to power maximum two converters per dew sensor or to power 0-10V / 24 Vac servomotors
(the number of servomotors that can be powered depends on the load required).

TECHNICAL DATA:
230/24 V / P = 10 VA / F = 50/60 Hz
Dimensions: Depth 64,8 mm / Width 35 mm

Available only on request.

CODE

**Pack
pcs/box**

9953R900

1