



# SIEMENS

Building Technologies

SIGMAGYR® RVL400 Series –  
Heat Control for Added  
Comfort.



# Heat Control for Added Comfort

## RVL400 series – universal user-friendliness

With their simple operating line concept, all heating controllers of the RVL400 series can be adjusted to suit individual needs quickly and easily with no detailed technical instructions.



Simple operating mode selection at the push of a button



Established analog heating curve setting facility



Control knob for simple room temperature correction



Push-button setting of setpoints, time of day, holidays etc.

**With the SIGMAGYR® RVL400 series of heating controllers, you offer your customers more comfort with a minimum of effort. These multifunctional controllers and their numerous integrated service functions, provide for simple and versatile operation in any system. The user-friendly operation and pre-programmed plant types simplifies commissioning, and offers increased convenience for you and your customers at the same time.**

## SIGMAGYR® RVL400 series

The SIGMAGYR® heating controllers of the RVL400 series give you an optimal solution for all applications. Whether for a single-family home, a multi-family home, a school building or a small-scale commercial building, the RVL400 series controllers provide safety, intelligence and reliability for comfortable and economical building temperature control. They can be used for weather-compensated supply temperature control (with or without room influence) as well as versions for demand control of heat producers, domestic hot water and additional zones. The same unique features and an identical operating philosophy characterize each controller within the RVL400 series, providing for versatile use with any plant.

## Time-saving commissioning

With the RVL400 series, you benefit not only from high functionality but also from simple commissioning and the highest standards of reliability. By selecting between up to 29 pre-programmed plant types, you automatically activate all of the necessary functions for the respective application. The display provides clear information on current plant status as well as setpoints and actual values. Additional service and test functions are provided which help to improve maintenance and plant diagnosis.

## Simple, easy-to-understand operation

Offer your customers the full benefits of simple operation. Each programmed setting can be simply adjusted to individual needs with no detailed technical instructions or background knowledge. At the push of a button, the user can choose between multiple operating modes, and obtain information on current settings, such as operating level, time of day, setpoints and actual values, holiday periods etc.



The long-established analog heating curve setting facility and the control knob for room temperature correction enable the user to directly influence the room comfort control – simply and comprehensibly.

## Communicative

All SIGMAGYR® RVL400 series heating controllers can communicate via the LPB data bus with each other to form interconnected systems (shared data) and also with the SYNERGYR® central unit. Remote communications and plant management is achieved via the OCI communications interface and ACS SIGMAGYR® Standard System.



### **SIGMAGYR® RVL470**

The SIGMAGYR® RVL470 heating controller is the flagship of the heating control range, providing multiple functionality for all application fields with an excellent price/performance. The following functions are included to ensure you will achieve optimal heating control (no modules or additional equipment are required):

- Weather compensated control of the heating flow temperature, with or without room influence.
- Demand control of heat producers (primary control)
- 6 pre-programmed plant types
- Weekly clock with 3 occupancy periods per day
- 3 temperature setpoints
- Holiday programs (up to 8 per year)
- ECO energy saving function
- Optimum start/stop, quick setback and boost heating
- Service functions
- Minimum and maximum limitation
- Remote control of operating modes via room unit or external switches
- Error messages for sensors, data bus and other devices
- Yearly clock with automatic summer/winter time changeover

### **SIGMAGYR® RVL471, RVL472 and RVL469**

To complement the comprehensive functions of the RVL470, three additional SIGMAGYR® controllers are available. These units offer enhanced functionality and additional pre-programmed plant types for domestic hot water control, boiler control and a second heating zone.

#### **Additional features of RVL471**

- Heating circuit control plus domestic hot water.
- District heating options
- 0 to 10 V heat demand output
- 29 preprogrammed plant types

#### **Domestic hot water control (471 / 472)**

Domestic hot water production is controlled independently of the heating circuit, and can be adapted to all requirements and needs. It includes the control of a circulation pump and an electric immersion heater.

- Domestic hot water temperature control with 1 or 2 sensors (or 1 or 2 thermostats)
- Release of domestic hot water upon demand
- Legionella control function
- Selectable forced charging of domestic hot water

#### **Multifunctional relay (471 / 472)**

A multifunctional relay output enhances standard heating control by the additional switching of plant. Plant can be switched:

- By the outside temperature
- According to the internal time programs
- During the heating period (occupancy) with or without optimization
- Manually at the controller
- When there is a demand for heat
- When an error signal is present

#### **Additional features of RVL472**

- Heating zone and demand -compensated control of the boiler and burner, plus d.h.w. control.
- Solar radiation and wind sensor connection facility\*
- Two 0 – 10 V heat demand inputs\*
- 21 preprogrammed plant types

#### **Additional features of RVL469**

- The connection of an RVL469 to an RVL470, 471 or 472, provides dedicated control of a second heating circuit at a reduced cost.

*\*Maximum two inputs in total*



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