



CONTROL PANEL UP (FLUSH MOUNTED)



STRAIGHT-WAY VALVE



VALVE ACTUATOR



CONTROL PANEL AP (SURFACE MOUNTED)



CONTROL PANEL UP (FLUSH MOUNTED)

LWS CONTROL EQUIPMENT

STAND-ALONE SINGLE ROOM CONTROL EQUIPMENT TO CONTROL THE WATER-SIDE COMPONENTS IN AIRWATER SYSTEMS

Compact, easy-to-operate control panel, used with air-water systems (2-pipe or 4-pipe systems) and the connected valves and actuators to control the room temperature

- Control panel for surface mounting or flush mounting, including control unit and room temperature sensor
- Self-explanatory push buttons
- Backlit LC display
- Temperature is displayed in °C or °F
- 2-point or 3-point outputs
- Valve with valve actuator, normally closed
- Control valves with G½" external thread and flat seal
- 230 V AC supply voltage

Optional equipment and accessories

- 7-day timer
- KNX or Modbus interface to the central BMS
- Amplifier, required if a control panel is used for the control of more than four induction units in a heating or cooling circuit

Application

Application

- Room control panel to be used in combination with air-water systems, e.g. induction units
- Control of the water circuits for heating and/or cooling a room
- · Controller for surface mounting or flush mounting with optional timer as a bespoke solution for project-specific installation situations

Special characteristics

- · Control panels for surface mounting or flush mounting
- Optional timer
- Valve with valve actuator, normally closed
- Valves with G½" external thread and flat seal
- Valves can be used for up to PN 16
- Connecting cable for valve actuator is available in various lengths (1.0 m as standard)
- Valve actuator with bayonet fixing

Nominal sizes

- RDGxxx: 128 × 93 × 31 mm (H × B × T)
- RDFxxx: $86 \times 86 \times 14$ mm ($\dot{H} \times B \times T$), visible part; total depth: 57 mm

Description

Components

- RDG100 Surface mounted controller without timer
- RDG100T Surface mounted controller with timer
- RDF600 Flush mounted controller without timer
- RDF600T Flush mounted controller with timer
- VVP47.10-x.xx straight-way valve (K_{VS} 0.25; 0.4; 0.63 or 1.0)
- Electro-thermal actuator, including valve adapter for straight-way valve VVP 47.10-x.xx

Lockshield

Construction

• Casing in RAL 9003, signal white

Accessories

• Amplifier (required if a control panel is used for the control of more than four induction units)

Maintenance

• Maintenance-free as construction and materials are not subject to wear

TECHNICAL INFORMATION

Function, Technical data, Specification text, Order code, Related products

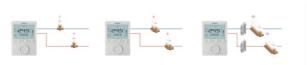
Functional description

The controller thermostat uses either the integral temperature sensor or an external temperature sensor to maintain the setpoint temperature for the room.

Operating modes can be set manually, using the push buttons, or automatically, using the timer.

Two or three multifunctional inputs enable the connection of additional components.

Schematic illustration of the control system



Operating voltage	230 V AC (+10/-15%)
Frequency	50/60 Hz
Power consumption	Max. 18 VA (RDG 100), max. 8 VA (RDF 600)
Control outputs	230 V AC, 1 A max.

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Compact, easy-to-operate control panel for surface mounting or flush mounting, with integral controller, for use with air-water systems and to control the water-side components.

Components

- RDG100 Surface mounted controller without timer
 RDG100T Surface mounted controller with timer
- RDF600 Flush mounted controller without timer
 RDF600T Flush mounted controller with timer

- VVP47.10-x.xx straight-way valve (K_{VS} 0.25; 0.4; 0.63 or 1.0)

 Electro-thermal actuator (NO or NC), including valve adapter for straight-way valve VVP 47.10-x.xx
- Lockshield

Special characteristics

- Control panels for surface mounting or flush mounting
- Optional timer
- Valve with valve actuator, normally closed
- Valves with G½" external thread and flat seal
- Valves can be used for up to PN 16
- Connecting cable for valve actuator is available in various lengths (1.0 m as standard)
- Valve actuator with bayonet fixing

Construction

• Casing in RAL 9003, signal white

Technical data

- Supply voltage: 230 V AC (+10/-15 %)
- Frequency: 50/60 Hz
- Power consumption: Max. 18 VA (RDG 100), max. 8 VA (RDF 600)
 Control outputs: 230 V AC, 1 A max.

This specification text describes the general properties of the product.

RB-UP-T/V

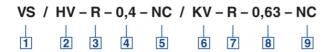
- 1 Accessories (supplied separately)
- Control panel

2 Variant

AP Surface mounted UP Flush mounted

- 3 Timer
- No entry: none
- With
- 4 Amplifier (supplied separately)

With (required if a control panel is used for the control of more than four induction units)



- 1 Accessories valves and valve actuators
- No entry: none With valves and valve actuators
- 2 Valve heating circuit
- No entry: none With heating valve
- 3 Lockshield heating circuit
- No entry: without lockshield With lockshield
- 4 Kvs-value heating circuit
- 0.40
- 0.63 1.00

- 5 Valve setting heating circuit
- Normally open
- 6 Valve cooling circuit
- No entry: none With cooling valve
- 7 Lockshield cooling circuit
- No entry: without lockshield With lockshield
- 8 Kvs value cooling circuit
- 0.25
- 0.40
- 1.00
- 9 Valve setting cooling circuit
- Normally open

Variants



Control panel UP (flush mounted)



Installation details

Installation and commissioning

- For surface mounting (RDGxxx) or flush mounting (RDFxxx)
 The controller should be mounted approx. 1.5 m above the floor
 Select an installation location where the control equipment is not affected by disturbances (e.g. solar gain, heating).
 Set the application using a DIP switch and before mounting the control equipment