




rosenthal design 



## Heat upon request!

- 9 pre-configured basic systems and numerous pre-programmed optional functions
- 30 pre-programmed schemes for the temperature controls classes II, III, V, VI, VII and VIII
- Up to 5 EM extension modules can be connected via the RESOL VBus® (39 sensors and 30 relays in total), up to 6 mixed heating circuits
- 2 inputs for digital Grundfos Direct Sensors™
- Screed drying function
- Data logging, storing and firmware updates via SD memory card
- Modulating heating control with 0-10V boiler control
- Weather-compensated control with room influence or demand-based room control with up to 5 room temperature sensors
- Remote access with a room control unit or the VBus®Touch HC App

## DeltaTherm® HC

The DeltaTherm® HC can control a weather-compensated heating circuit, the DHW loading and the backup heating demand for both.

With up to five extension modules, further heating circuits, additional DHW functions such as circulation or thermal disinfection, and the efficient implementation of further heat sources can be controlled.

Due to the flexible application and extension possibilities, the heating controller is also ideal for larger objects such as apartment houses, residential homes and industrial buildings.

Customised and OEM versions are available on request. Please contact our sales team.



Now temperature controls class VIII

### RESOL DeltaTherm® HC

Price bracket A | Article no.: **115 002 53**

### RESOL DeltaTherm® HC – Full kit

Incl. 5 Pt1000 sensors (1 x FAP13, 1 x FRP21, 3 x FRP6)

Price bracket A | Article no.: **115 002 63**

### RESOL DeltaTherm® HC – ErP 6 kit

Incl. 1 x FAP13, 1 x RCP12, 1 x FRP21, 1 x FRP6

Price bracket A | Article no.: **115 005 73**

### RESOL DeltaTherm® HC – ErP 8 kit

Incl. 1 x FRP21, 1 x FRP6, 1 x RCP12, 2 x FRP12

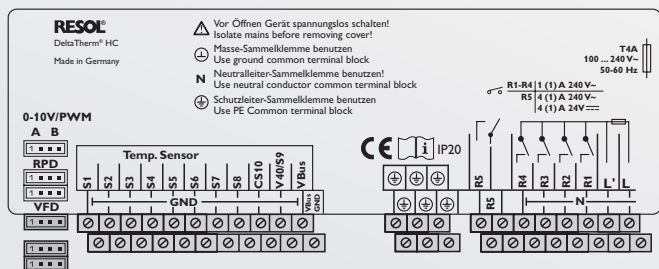
Price bracket A | Article no.: **115 005 83**

A 0-10V adapter cable and an SD card are included with the controller.

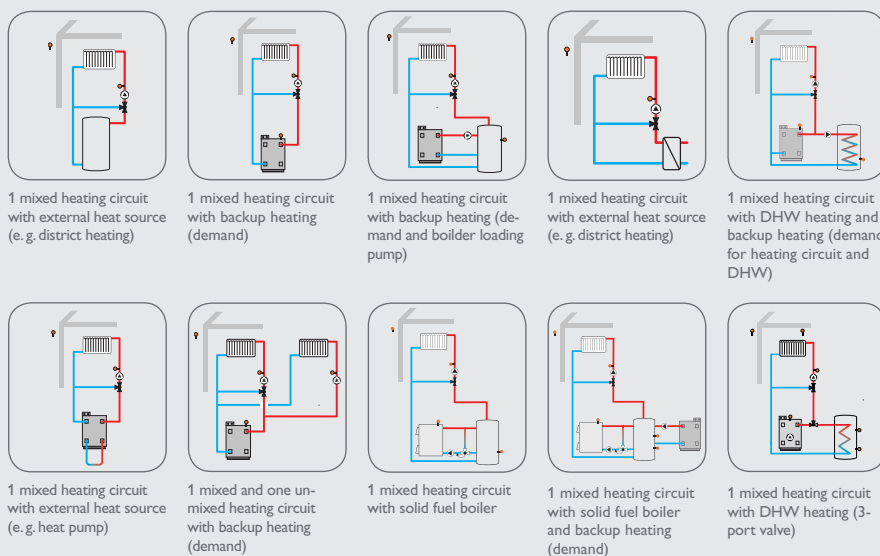
Menu languages:



## ELECTRICAL CONNECTION



## EXAMPLES



## ACCESSORIES


**RESOL KM2 Communication module**



Incl. RESOL service CD, network cable and mains adapter, VBus<sup>®</sup> cable pre-connected

Price bracket A | Article no.: **180 012 10**

**RESOL EM**



Sensor and relay Extension module with 5 outputs and 6 inputs

Price bracket A | Article no.: **145 440 80**

**RESOL FRP12 Indoor temperature sensor**



Used for measuring the indoor temperature with a Pt1000 measuring element

Price bracket A | Article no.: **155 008 90**


**RESOL RCP12**



Room control unit


Price bracket A | Article no.: **136 000 50**

**VFD/ RPD Grundfos Direct Sensor™**



Digital sensors in different versions

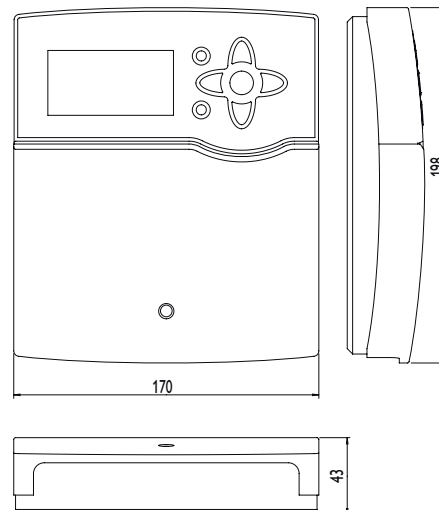
**RESOL SV6**



SV6 Sensor distribution box

Price bracket A | Article no.: **145 441 30**

## TECHNICAL DATA



**Inputs:** 8 (9) inputs for Pt500, Pt1000 or KTY temperature sensors, 1 V40 impulse input, inputs for 2 digital Grundfos Direct Sensors™, 1 input for a CS10 irradiation sensor

**Outputs:** 4 semiconductor relays, 1 potential-free relay, 2 PWM outputs

**PWM frequency:** 1000 Hz

**PWM voltage:** 10.5 V

**Switching capacity:**

1 (1) A 240 V~ (semiconductor relay)  
 4 (1) A 24 V~ / 240 V~ (potential-free relay)

**Total switching capacity:** 4 A 240 V~

**Power supply:** 100... 240 V~ (50... 60 Hz)

**Supply connection:** type Y attachment

**Standby:** 0.81 W

**Temperature controls class:** VIII

**Energy efficiency contribution:** 5 %

**Mode of operation:** type 1.B.C.Y action

**Rated impulse voltage:** 2.5 kV

**Data interface:** RESOL VBus<sup>®</sup>, SD card slot

**VBus<sup>®</sup> current supply:** 60 mA

**Functions:** screed drying, weather-compensated heating circuit control, backup heating, DHW heating with priority logic, circulation, thermal disinfection, heat quantity measurement, optional functions such as solid fuel boiler, return preheating, etc.

**Housing:** plastic, PC-ABS and PMMA

**Mounting:** wall mounting, mounting into patch panels is possible

**Indication/Display:** full graphic display, operating control lamp LED (directional pad) and background illumination

**Operation:** 7 push buttons

**Ingress protection:** IP 20/EN 60529

**Protection class:** I

**Ambient temperature:** 0... 50 °C

**Pollution degree:** 2

**Dimensions:** 198 x 170 x 43 mm

\*For the digital inputs, the following sensor combinations are possible:

- 1 x RPD, 1 x VFD  
 - 2 x VFD, but with different measuring ranges only