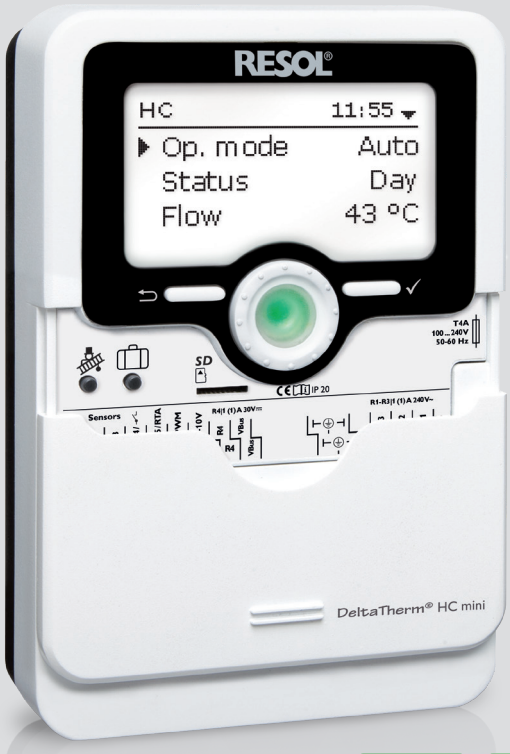
RESOL®
CONTROL TECHNOLOGY




rosenthal design

VBus.net | RPT | HE pump control | MicroSD | VBus®Apps

# DeltaTherm® HC mini

The DeltaTherm® HC mini offers a compact and user-friendly solution for simple heating systems. It can control a weather-compensated heating circuit and its backup heating demand. Additionally, there's a choice of 5 different operating modes, a boiler protection option and a night correction.

Due to the commissioning menu and the 4 pre-configured basic systems, configuration is quick and easy.

The chimney sweeper function and the holiday mode can be activated by pressing a single button.

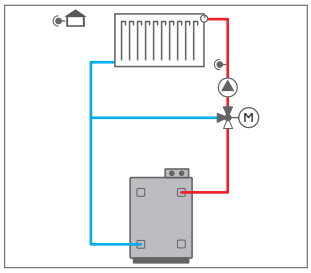
VIII Temperature controls class VIII

## Heating control, simple and efficient

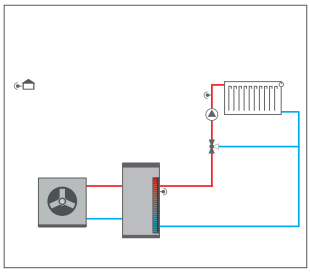
- 4 pre-configured basic systems
- 12 pre-programmed schemes for the temperature controls classes II, III, V, VI, VII and VIII
- 4 relay outputs (incl. 1 potential-free extra-low voltage relay)
- 5 inputs for Pt1000 temperature sensors
- 5 operating modes, boiler protection, room thermostat and night correction
- Holiday mode, chimney sweeper function and screed drying function via microbuttons
- Data logging, storing, easy transfer of controller adjustments prepared and firmware updates via SD card
- Modulating heating control with 0-10 V boiler control
- Weather-compensated control with room influence or demand-based room control with up to 3 room temperature sensors
- Remote access with a room control unit or the VBus®Touch HC App
- Heat pump demand (optional)

| Article no. | Article | Price bracket |
|---|---|---|
| 115 005 23 | DeltaTherm® HC mini – Heating controller | A |
| 115 005 13 | DeltaTherm® HC mini – Full kit » incl. 3 Pt1000 sensors (1 x FAP13, 1 x FKP23, 1 x FRP6) | A |

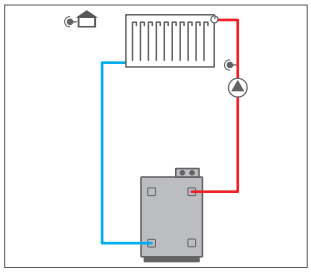
## EXAMPLES



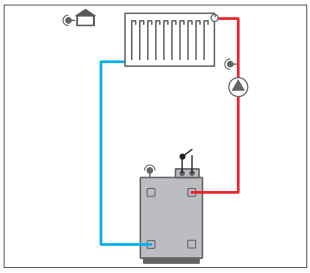
1 mixed heating circuit



1 mixed heating circuit with 1 store and heat pump (demand)

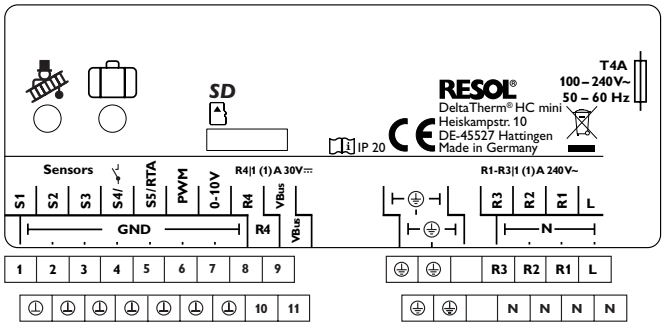


1 static heating circuit



1 static heating circuit with backup heating (demand)

## ELECTRICAL CONNECTION




## TECHNICAL DATA

**Inputs:** 5 inputs for Pt1000 temperature sensors (1 of them can be converted to Switch and one of them to RTA remote control or BAS operating mode switch)
**Outputs:** 3 semiconductor relays, 1 potential-free extra-low voltage relay, 1 PWM output, 1 0-10 V output
**PWM frequency:** 512 Hz
**PWM voltage:** 10.8 V
**Switching capacity:**
1 (1) A 240 V~ (semiconductor relay)
1 (1) A 30 V⎓ (potential-free relay)
**Total switching capacity:** 3 A 240 V~
**Power supply:** 100–240 V~ (50–60 Hz)
**Supply connection:** type X attachment
**Standby:** 0.62 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:** VBus®, MicroSD card slot
**VBus® current supply:** 60 mA
**Functions:** weather-compensated heating circuit control, backup heating, room thermostat, chimney sweeper function, screed drying function
**Housing:** plastic, PC-ABS and PMMA
**Mounting:** wall mounting, mounting into patch panels is possible
**Indication / Display:** full graphic display, operating control LED (Lightwheel®)
**Operation:**
4 buttons and 1 adjustment dial (Lightwheel®)
**Ingress protection:** IP 20 / EN 60529
**Protection class:** I
**Ambient temperature:** 0 … 40 °C
**Degree of pollution:** 2
**Relative humidity:** 10 … 90 %
**Fuse:** T4A
**Maximum altitude:** 2000 m above MSL
**Dimensions:** 110 × 166 × 47 mm

## ACCESSORIES

### KM2 Communication module

For remote access to the controller via VBus.net

### RTA12 Remote control

The heating curve can be comfortably adjusted from the living area

### RCP12 Room control unit

The heating curve can be comfortably adjusted, incl. operating mode switch

### FRP12 temperature sensor

Used for measuring the indoor temperature with a Pt1000 measuring element

### AM1

Alarm module for signalling system failures