



HDG Control, heating and system controllers

Thermostat options

Weather-compensated heating circuit

The HDG Control has an integrated weather-compensated heating control. 6 different heating circuits can be managed per display. The designation of the individual heating circuits can be adjusted individually to improve clarity.






The calculation of the heating circuit flow temperature is performed using the settable gradient of the heat curve and the outside temperature. Other factors which influence heating curve correction (parallel shift) and the day or night indoor target temperature.

Operating modes:

Each heating circuit can be assigned to individual operating modes. In addition, the operating modes for all heating circuits can be set for multiple systems.

You can choose between the following operating modes:

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Normal
 This mode is selected for automatic operation. Depending on the requirements, the weather-compensated heating control is put into operation and controls itself independently according to the heating / reduce temperature or off period set in the week programme.
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Day mode
 This operating mode deactivates the original preset reduced temperature periods. The weather-compensated heating control works continuously in day operation (heating operation).
- 
Night mode
 This operating mode deactivates the original preset heating times. The weather-compensated heating control works continuously in night operation (reduced operation).



- Party mode**
 This operating mode activates day operation (heating operation) independently of the current operating mode. The next night operation (reduced operation) is omitted. The weather-compensated heating control will function in party mode until a normal change is made from Reduced temperature to Heating in the week programme. The operating mode then switches back to normal mode.



- Holiday mode**
 In holiday operation, a period is defined in which the heating circuit will be switched off automatically and will be switched on again after the time has expired.



- Summer mode**
 The selected heating circuit is also set to Off in summer mode. The mixing valve is closed and the heat circuit pumps are switched off. Summer mode will remain until it is deactivated.

The following systems can be selected as possible heating systems:

- Radiators**
- Underfloor heating:** With this heating system you have the option of activating a screed drying program.
- Constant:** Controlled independent of the outside temperature to the same adjustable flow temperature e.g. controlling swimming pool heating; indoor thermostat unit is not possible here
- Not controlled:** Start according to enabling temperature and week program; without heating circuit mixing circuit; in combination with the indoor thermostat unit, the pump switches off after reaching the desired room temperature (thermostat function).

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* Sensor input is reserved for room programmer light/indoor thermostat unit

HDG room control unit/room control sensor

The HDG room control units and room sensors are extension modules for the weather-compensated heating control of the HDG Control. Depending on their functional scope, these extension modules can calculate actual room temperature values and influence it. Plastic housing with 4-hole fastening, dimensions 98x106x32 mm, colour pure white, similar to RAL 9010, IP30

HDG room control unit bus:

Room control unit with integrated room sensor, fault and refuelling LED, dial for setting heating circuit operating modes (e.g. heating mode, reduced, auto, off). Dial for adjusting the flow temperature. Connection via bus.



HDG room control unit LIGHT:

Room control unit without room sensor with the option for setting the operating mode of the heating circuit (off, auto). Dial for adjusting the flow temperature. Connection via sensor line.



HDG room control sensor:

Room control sensor with integrated PT1000 measuring element. Comparison of room target and actual temperature with subsequent adjustment on the flow temperature.



Type/output/version	Item no.		
HDG room control unit BUS	HDG16005027		
HDG room control unit LIGHT	HDG16005028		
HDG room control sensor	HDG16005033		

Regulation and control technology