

FLOOR HEATING / COOLING CONTROLLER HLS 35

The HLS35 is specifically designed for individual room floor heating / cooling applications. The HLS 35 controller has built-in RS-485 channel for Modbus communication. Controllers can be connected to any supervisory software / system supporting Modbus RTU.

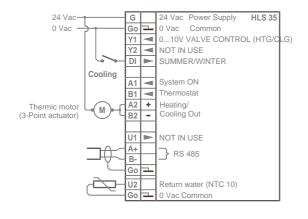
The HLS35 has built-in display and unique touch sensitive buttons for adjusting the user parameters and for configuring the controller.

This controller supports 0...10V actuators, 3-point controlled actuators and thermic (PWM) actuators.

It is possible to connect external floor temperature sensor to the system and limit minimum temperature of the floor to maintain convinient surface temperature of the floor.

The controller has DAY and NIGHT operating modes. When in the NIGHT mode the controller can be overridden to the DAY mode via a hardware input by touching day extension button or via the MODBUS network. Return to NIGHT mode is automatic after preset delay.

Wiring:





Technical data:

supply

24Vac/dc (20...26V) < 1 VA

Note! When using dc supply only
0-10V outputs are operational
inputs

1 x NTC10 return water temp.
1 x digital (summer / winter)
output Y1

0...10V, 2mA

+/- 0.5 °C

thermic actuator 24Vac 1A day mode:21°C, *+/- 3°C, *21°C

night mode: 5-20°C, *17°C

50...5000 s. *300 s

30...300 s, *180 s

output Y1 0...10V, 2mA A2/B2 3-point actuator, 24Vac 1A or

selectable by commissioning

set point

accuracy

 dead zone
 Dz
 day mode: 0...3 °C, *2 °C night mode: 0...10 °C, *6°C

 P-band
 Xp
 1...32 °C, *2 °C

integration time Tn 3-point act. running time Mt

outputs A1/B1 and

allowed ambient humidity 0...85 % RH (non-condensive)

wiring terminals 1,5 mm²

housing ABS-plastics, IP20 dimensions w x h x d 87 x 86 x 32 mm

* = factory setting

Ordering guide:

Model	Product number	Description
HLS 35	1150130	floor heating controller with
		MOD-bus communication
TEL NTC 10	1175280	floor temperature sensor

Products fulfil the requirements of directive 2004/108/EY and are in accordance with the standards EN61000-6-3: 2001 (Emission) and EN61000-6-2: 2001 (Immunity).