

ZONE TEMPERATURE CONTROLLER HLS 21

HLS 21 is a two stage controller for individual room and zone temperature control applications. There is one thermic actuator stage for both cooling and heating.

Temperature is detected by the internal (or external) NTC 10 sensor. The space temperature is maintained at the set point by modulating the position of the actuator to meet the cooling (green light) or heating (red light) demand. The dead zone (no red or green light) between heating and cooling is adjustable (0...3°C).

The controller supports thermal actuators that are controlled by using 20 s pulse width modulation. The cooling mode can be disabled by connecting Z1=Go by using the external switch.

The display normally shows the measured temperature. When the settings are adjusted, the display automatically shows that value for approximately 2 seconds.

Controller can be used in dry surroundings mounted on the wall surface or on the standard flush mounting box (60 mm hole distance).

Coding:

S1	Valve jam prevention		Valve jam prevention on
		• •	Valve jam prevention off
S2	Proportional band (Xp)		2 °C
		• •	1 °C
S 3	Centre of user set point area	(factor) chan poter and t	user set point area centre ory setting 21 °C) can be ged by turning the ntiometer to the desired position hen removing and replacing umper.



Technical data:

Supply 24 Vac (20...26 V) / 2 VA Set point 18...24 °C, ±3 °C, *21 °C

Allowed ambient humidity 0...85 % RH (non cond.)

Terminals 1,5 mm²

Housing ABS-plastics, IP20

* = factory setting

Wiring:

G 24 Vac Go 0 V

A1 Cooling output
A2 Heating output

Z1 as Z1=Go, cooling is disabled

EXT External NTC 10 temperature sensor (only EXT models)

Ordering guide:

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Model	Product number	Description
HLS 21	1150100	temperature controller with an internal sensor
HLS 21-N	1150101	temperature controller with an internal sensor and with display
HLS 21-EXT	1150102	terminals for external NTC 10 sensor
HLS 21-N-EXT	1150103	temperature controller with internal display and with terminals for external NTC 10 sensor

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

