

FLOOR HEATING / COOLING CONTROLLER HLS 16

HLS 16 is a 1-stage floor heating / cooling controller for individual room temperature control. Both heating and cooling are controlled by using the same thermal actuator. The cooling or heating function can be selected with the external contact connected to the terminal Z1. (Z1= off = heating or Z1=Go=cooling)

The controller supports thermal actuators (NO or NC). The actuators are controlled time proportionally in about 20 second sequences.

Room temperature is detected by an internal NTC10 sensor. The output, controlling heating (red light) and cooling (green light), is proportional to the difference between set point and measured value.

Normally the display of HLS 16-N indicates the detected value, but when the setting has been changed it will be indicated for 2 s.

Jumper settings:

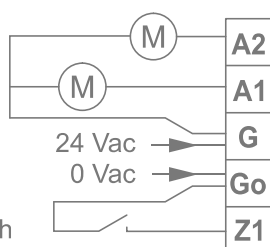
S1	Valve jam prevention		Valve jam prevention on
			Valve jam prevention off
S2	Proportional band (Xp)		2 °C
			1 °C
S3	Centre of user set point area	The user set point area centre (factory setting 21 °C) can be changed by turning the potentiometer to the desired position and then removing and replacing the jumper.	

Wiring

Thermal actuator, NO

Thermal actuator, NC

Summer/winter switch



Technical data:

Supply	24 Vac (20...28 V) / 1 VA
Set point	18...24, ±3 °C, *21 °C
Accuracy (measurement)	±0,5 °C
Dead zone (Dz)	0...3 °C, *0,0 °C
Proportional band (Xp)	1 °C or *2 °C
Outputs A1 and A2	24 Vac, 1 A
Operating conditions	
temperature	0...50 °C
humidity	0...85 % RH (non-condensing)
Terminals	1,5 mm²
Housing	ABS plastic, IP20
Mounting	on the wall or on the standard flush mounting box (60 mm hole distance)
	* = factory settings

Ordering guide:

Model	Product number	Description
HLS 16	1150160	floor heating / cooling controller
HLS 16-N	1150161	floor heating / cooling controller with display

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