



## Temperature controller DIN rail mounting RH4

2 continuous output with settable P-Band  
for external temperature sensor  
direction heating selectable (ia/da)  
dead band adjustable  
Housing: 58 x 96 x 51 mm, TS35

### Technical data

Electrical data	Power supply	24 Vac (21,6...26,4 V)
	Power consumption	< 1 VA
	Output signal	2 x 0...10 Vdc, max. 2 mA
Functions	Adjustment range	see order information
	Output Y1 Terminal 3	cooling (da) increases tR - increases Y
	Output Y2 Terminal 4	heating (ia) increases tR - decreases Y (selectable da possible)
	Setpoint correction SK	±5 K, adjustable internally
	P-Band XP	1...6 K (factory setting FS 2 K)
	dead band	-3 K...+6 K (FS 1 K)
Safety	Temperature probe	for external sensor Djadun (series F..11)
	Protection type / class	IP20 / III (SELV)
	EMC	EN 55011:2011-04, 55011-103:2013-02
	CE conformity	according to 2014/30/EU
	Ambient temperature ambient conditions	operation 0...50 °C; storage -10...+70 °C normally air polluted
Mechanical	Permitted relative humidity	max. 95% RH, no condensation
	connection technology	screw terminal 2,5 mm <sup>2</sup>
	Housing	ABS, 58 x 96 x 51 mm, grey
	Mounting	mounting rail TS35
	Weight	about 75 g

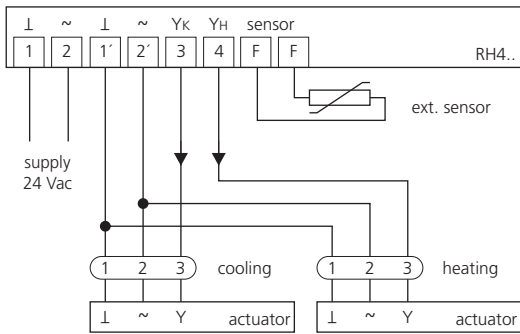
### Product features

Application	For control of continuous actuators, VAV-units and Ventilation unit's in HVAC systems.
Control function	2 continuous output with proportional function
Control signal	0...10 Vdc, 1 x cooling, 1 x heating selectable da / ia (FS = ia)
Power supply	24 Vac

### Order information

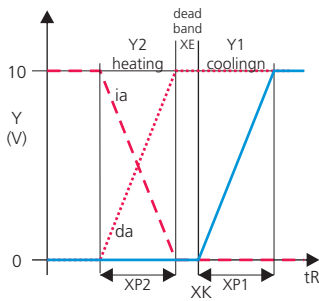
Item number	signal	range	Variant
RH4/0.50	0...10 Vdc	0...50 °C	heating / cooling

### Connection diagram

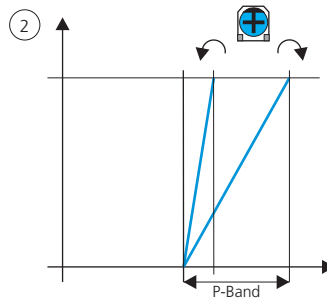


Parallel connection of other actuators possible. Note power data!

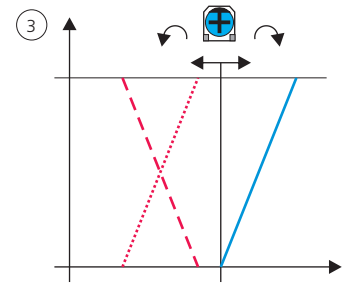
### Function diagramm RH4



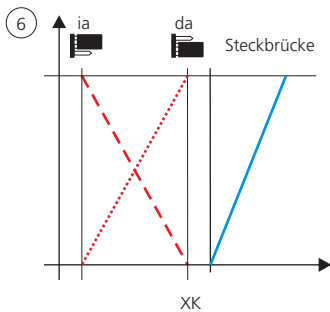
### P-Band XP1 (cooling)



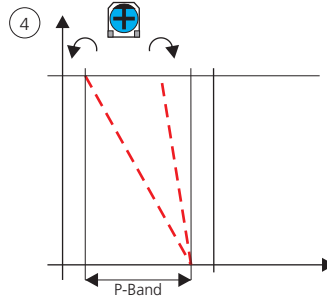
### Setpoint correction SK



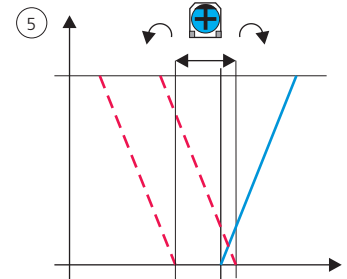
### Heating direction (ia/da)



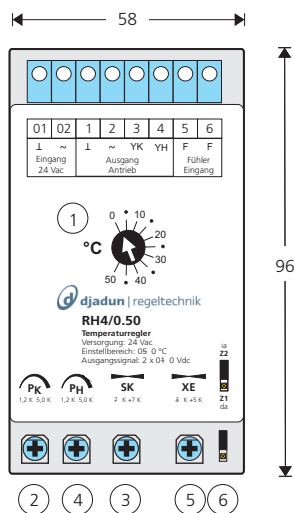
### P-Band XP2 (heating)



### dead band XE



### Dimensions RH...



- ① Setpoint adjustment XK
- ② P-Band XP1 (cooling)
- ③ setpoint or sensor correction
- ④ P-Band XP2 (heating)
- ⑤ daad band XE
- ⑥ Switch-Jumper heting (da/ia)