



Air duct temperature controller RK4

Compact temperature controller for air duct mounting with integrated temperature sensor
 2 continuous output with settable P-Band
 direction heating selectable (ia/da)
 Dead band adjustable
 Housing: 82 (113) x 80 x 46 (-TR) mm, IP54, sensor sealed

Technical data

Electrical data	Power supply Power consumption Output	24 Vac (21,6...26,4 V) < 1 VA 2 x 0...10 Vdc, max. 2 mA
Functions	Adjustment range Output Y1 terminal 3 Output Y2 terminal 4 Setpoint correction SK P-Band XP Dead band Temperature probe	0...50 °C cooling (da) increases tR - increases Y heating (ia) increases tR - decreases Y (selectable da possible) ±4 K, adjustable internally 1...8 K (factory setting FS 2 K) -6 K...+6 K (FS 1 K) integrated duct sensor, moisture resistant embedded
Safety	Protection type / class EMC CE conformity Ambient temperature	IP54 / III (SELV) EN 55011:2011-04, 55011-103:2013-02 according to 2014/30/EU operation 0...50 °C; storage -10...+70 °C
Mechanical	connection technology Housing cable entry immersion sleeve Immersion depth Weight	screw terminal 2,5 mm ² 82 (113) x 80 x 46 (+TR) mm, PC halogenfree (grey) cable gland M20 x 1,5 stainless steel ø 10 mm with ALU-flange with/without flange = 80/100 mm or 180/200 mm ca. 270 g

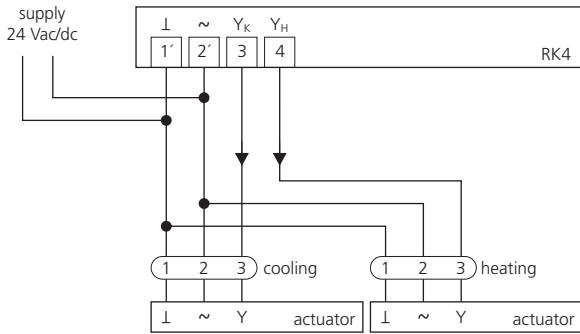
Product features

Application	For control of continuous actuators, VAV systems and ventilation units in HVAC systems and marine applications
Special	Cost-effective compact solution, which is mainly used to control the supply air or exhaust air temperature in ventilation duct systems.
Control function	2 continuous output with proportional function
Control signal	0...10 Vdc, 1 x cooling, 1 x heating (ia = FS factory setting, da selectable)
Power supply	24 Vac

Order information

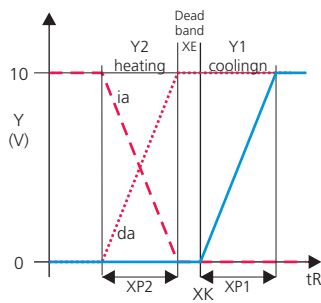
Item number	signal	range	Variant
RK4/0.50-100	0...10 Vdc	0...50 °C	Immersion depth 80 / 100 mm
RK4/0.50-200	0...10 Vdc	0...50 °C	Immersion depth 180 / 200 mm

Connection diagram

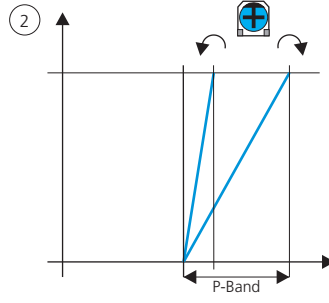


Parallel connection of other actuators possible. Note power data!

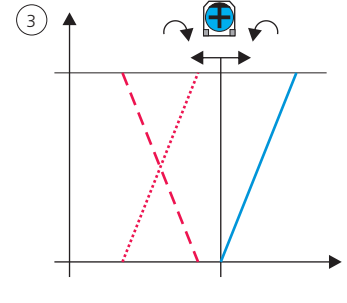
Function diagram RK4



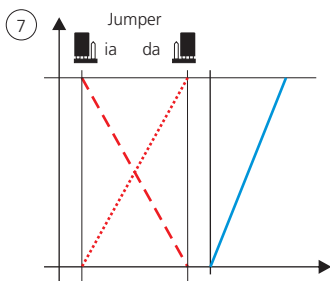
P-Band XP1 (cooling)



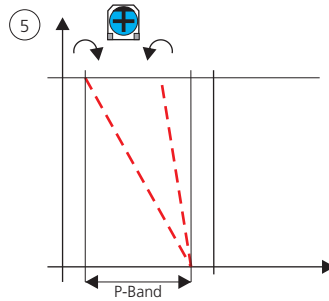
Setpoint correction SK



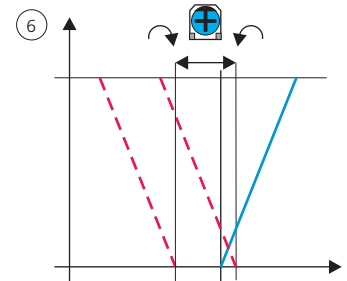
Heating direction (ia/da)



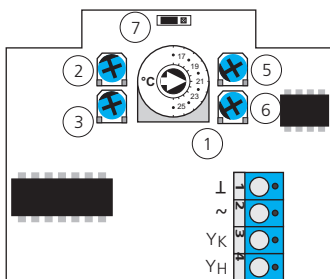
P-Band XP2 (heating)



Dead band XE



Circuit Board <ccb: A4084>



- ① Setpoint adjustment XK
- ② P-Band XP1 (cooling)
- ③ setpoint or sensor correction
- ⑤ P-Band XP2 (heating)
- ⑥ Dead band XE
- ⑦ Switch-Jumper YH (da/ia)

Dimensions

