



## ROOM THERMOSTATS FOR FAN COIL WITH ONE 0-10 V OUTPUT FOR 2-PIPE DB-TA-3B5..A SYSTEM WITH ECONOMY FUNCTION AND REMOTE SEASON CHANGEOVER

### FUNCTION

Temperature control in heating, ventilation, refrigeration and air conditioning for typically 2-pipe fan coil systems with proportional valve.

- 1 proportional output 0...10 Vdc
- 1 remote season changeover
- manual selection of On/Off, 3 fan speed
- economy function

The thermostat is provided with a LCD display and keys +/- for parameters setting like the range, proportional band and economy mode. When the thermostat is on the fan is on at the speed selected manually and the proportional output is set according to parameter setting.

In addition an economy function is available with a remote contact. When the contact is closed the thermostat works with an economy mode.

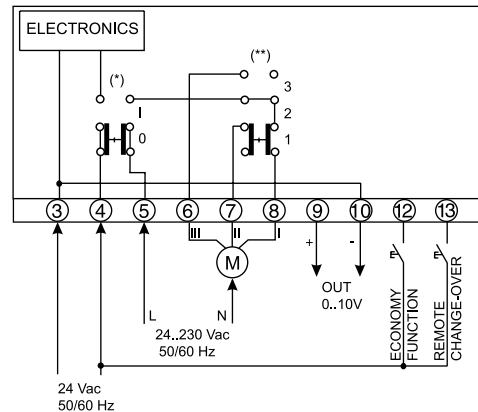
TYPE	ON/OFF	3-SPEED	S/W
DB-TA-3B5-13A	•	•	remote
DB-TA-3B5-10A	•		remote
DB-TA-3B5-00A			remote

### TECHNICAL DATA

<b>Power supply:</b>	24 Vac $\pm$ 10%, 50/60 Hz
<b>Inputs:</b>	external contacts for economy and season changeover function
<b>Outputs:</b>	1 0-10 V outputs ( $R_L > 10$ kOhm) speeds: 6 A 24/230 Vac, 50/60 Hz
<b>Power consump.:</b>	1 W
<b>Sensor:</b>	NTC 10K
<b>Setpoint:</b>	+5...+30 °C
<b>Economy:</b>	adjustable range between +5...+30 °C (replaced the working setpoint)
<b>Prop. band:</b>	$\pm 0,5... \pm 2,5$ K
<b>Display:</b>	resolution 0.1 °C
<b>Working:</b>	0...+40 °C
<b>Storage:</b>	10...90% r.h. (without condensing) -20...+70 °C < 95 % r.h.
<b>Housing:</b>	ABS fireproof according to UL94 V-0 color (RAL 9010)
<b>Protection class:</b>	IP30, class II
<b>Size:</b>	144 x 82 x 34 mm
<b>Weight:</b>	220 g

### WIRING DIAGRAM

#### DB-TA-3B5-XXA



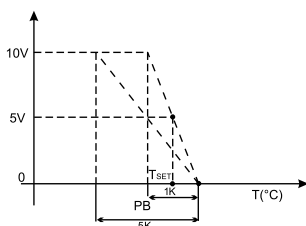
ECONOMY FUNCTION contact closed: economy function selected  
ECONOMY FUNCTION contact open: economy function not selected  
SEASON CHANGE-OVER contact closed: reverse action (heating)  
SEASON CHANGE-OVER contact open: direct action (cooling)

(\*) only for models DB-TA-3B5-13A, DB-TA-3B5-10A

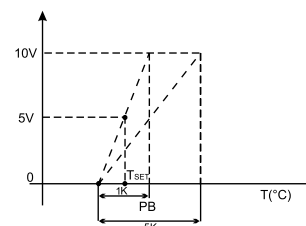
(\*\*) only for model DB-TA-3B5-13A

### Logic of proportional output

#### Reverse action



#### Direct action



PB proportional band

