ROOM CONTROLLERS FOR 4-PIPE SYSTEM WITH 2 STAGES HEATING AND 2 STAGES COOLING

DB-TA-3A3..0

FUNCTION

4-pipe fan coil control for room temperature applications with:
- 2 heating relays outputs and 2 cooling relays outputs with dead zone (dEZ);
- manual selection of 3 fan speeds and selection of type of ventilation with keys and parameter (model DB-TA-3A3-700 only)
- internal or remote temperature sensor (optional).

The thermostat is provided with a LCD display and keys +/- for parameters setting like the range, the neutral zone, differential for heating and cooling stages, differential between the heating stage 1 and 2 and between the cooling stage 1 and 2, the position of setpoint in the neutral zone, the type of ventilation (continuous, based on temperature, off) (model DB-TA-3A3-700 only). In normal condition of use the temperature is visualized with a step of 0.1 °C.

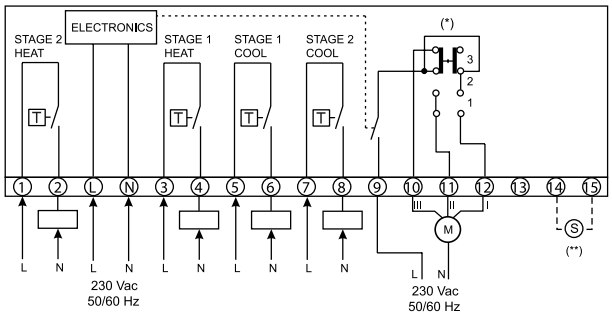
TYPE	3-SPEED	DIFFERENTIAL BETWEEN STAGES K	DIFFERENTIAL IN THE STAGE K
DB-TA-3A3-700	•	0.5...4	0.5...4
DB-TA-3A3-000		0.5...4	0.5...4

On request:
optional remote 2 m cable sensor, selectable by jumper; ordering code: NT0220-NTC10-02.

TECHNICAL DATA

Power supply:	230 Vac ± 10%, 50/60 Hz
Outputs:	valves: 4 relays SPST 5 A 230 Vac speeds: 5 A 230 Vac, 50/60 Hz
Power consumption:	1 W
Sensor:	NTC 10K
Setpoint:	+5...+30 °C
Differential between the stages:	0.5...4 K
Differential in stages:	0.5...4 K
Display:	resolution 0.1 °C
Working:	0...+40 °C 10...90% r.h. (without condensing)
Storage:	-20...+70 °C < 95 % r.h.
Housing:	ABS fireproof according to UL94 V-0 color (RAL 9010)
Protection class:	IP30, class II
Size:	144 x 82 x 34 mm
Weight:	220 g

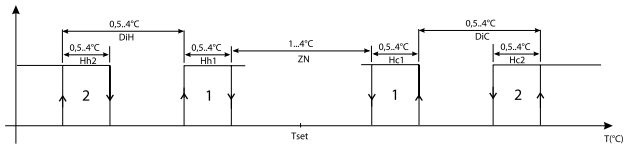
WIRING DIAGRAM



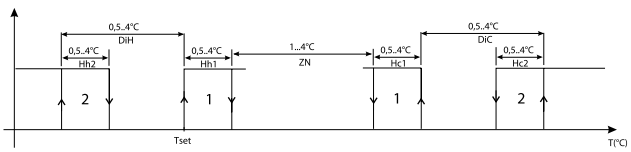
(*) only for models DB-TA-3A3-700
(**) remote sensor (optional)

Logic of relay outputs

Setpoint centered on neutral zone



Setpoint on first heating stage



DiH differential between heating stages
DiC differential between cooling stages
Hh1 differential heating stage 1
Hh2 differential heating stage 2
Hc1 differential cooling stage 1
Hc2 differential cooling stage 2