

ROOM CONTROLLERS WITH PROPORTIONAL OUTPUT FOR 4- PIPE SYSTEMS



DBTA-345

FUNCTION

4- pipe fan coil control for room temperature applications with:

- knob for temperature setting
- 2 proportional 0...10 Vdc output with dead zone (ZN);

- manual selection of On/Off and 3 motor speed (depending on models);
- internal or remote temperature sensor (optional).

TYPE	ON/OFF	3- SPEED	LOCAL S/W
DBTA-345-139	•	•	zn
DBTA-345-199	•		zn
DBTA-345-939		•	zn
DBTA-345-999			zn

zn dead zone

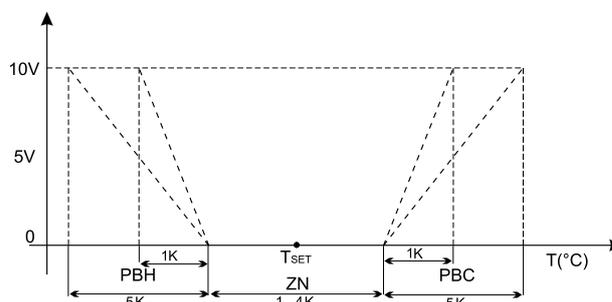
On request:

optional remote 1 m cable sensor, selectable by jumper; ordering code: NTB010-623.

TECHNICAL FEATURES

- Power supply:** 24 Vac \pm 10%, 50/60 Hz
- Max load:** 6 A (speed)
- Outputs:** 2 proportional 0...10 Vdc ($R_L > 10$ kOhm)
- Power cons:** 1 W
- Sensor:** NTC 100K
- Setpoint:** +5...+30 °C; mechanical limitation of the setpoint adjustment
- Prop. band:** 1...5 K
- Dead zone:** 1...4 K
- Working:** 0...+40 °C; 10...90% r.h. (non condensing)
- Storage:** -20...+70 °C < 95 % r.h.
- Housing:** ABS self-extinguished according to UL94 V-0 color (RAL 9010)
- Protection:** IP30, class II
- Dimension:** 144 x 82 x 34 mm
- Weight:** 210 g

Working logic



Jumper setting:

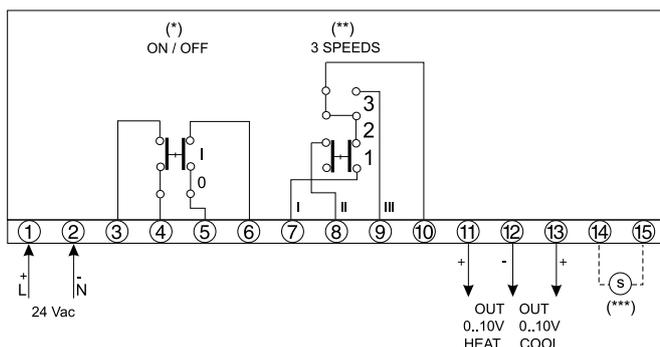
- J1 closed = internal sensor
- J2 closed = remote sensor

The products are factory supplied with internal sensor jumper setting.

ELECTRICAL WIRING

Terminal connections for 4-pipe air conditioning and heating systems.

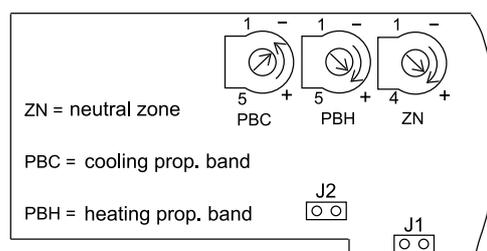
The On/Off and 3 speed switches are electrically independent from thermostat and are directly connected terminals.



(*) only for models DBTA-345-139, DBTA-345-199

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(***) remote sensor (optional)



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Application examples of the terminal connections:

the On/Off switch drives the start-up of the thermostat and the motor is always powered;

the On/Off switch drives the start-up of the motor

