



ROOM HUMIDISTATS

DBZH

FUNCTION

Relative humidity room control with:

- setpoint adjustment by knob;
- control of 1 or 2 stage humidifiers and dehumidifiers.

APPLICATIONS

Well-suited in domestic, commercial and industrial areas with light pollution for various applications in air conditioning field:

- office and computer rooms;
- foodstuffs storehouse;
- greenhouses;
- textile, paper and printing industries;
- swimming pools.

TYPE	SETPOINT	DIFFERENTIAL
DBZH-101	30...100%	3...5% RH
DBZH-101U	30...100%	3...5% RH

U models with range under the cover

TECHNICAL DATA

Sensitive element:	several synthetic fabric bands.
Contacts:	dust-tight microswitches with SPDT contacts
Switch capacity:	
resistive load	(lifetime > 6000 cycles)
	humidify: 0,1...2 A, 230 Vac
	dehumidify: 0,1...5 A, 230 Vac
inductive load	$\cos \phi = 0.7$: 0,1...1 A, 230 Vac
Differential:	see schedule
Working temp.:	0...+60 °C
	< 95% r.h. (without condensing)
	In the case of the voltage below 48V, the humidistat can be used up to 100% r.h.
Storage:	-20...+60 °C
	< 95% r.h.
Temp. coeff.:	see schedule under $\pm 0,2\%$ r.h./K at 23°C
Max air speed:	0,2...8 m/s
Time constant	
t₅₀ at 2 m/s:	72 sec
Housing:	ABS
Protection:	IP20, class II
Size:	115 x 70 x 35 mm
Weight:	130 g

NOTE

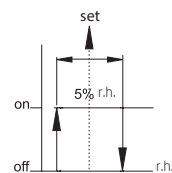
The hygrostats must not be in direct contact with water and should be exposed to air flow.

Not suitable for aggressive media.

	10 °C	20 °C	30 °C	50 °C
10% r.h.	$\pm 0,7\%$ r.h.	$\pm 0,6\%$ r.h.	$\pm 0,6\%$ r.h.	$\pm 0,5\%$ r.h.
50% r.h.	$\pm 3,5\%$ r.h.	$\pm 3,2\%$ r.h.	$\pm 3,0\%$ r.h.	$\pm 2,6\%$ r.h.
90% r.h.	$\pm 5,3\%$ r.h.	$\pm 5,7\%$ r.h.	$\pm 5,4\%$ r.h.	$\pm 4,6\%$ r.h.

LOGIC OF OUTPUTS

DBZH-101/101U



r.h. > set $\leftrightarrow$ r.h. < set

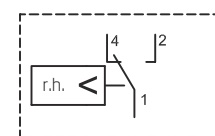


fig. 1

WIRING DIAGRAM

The contact 1 - 2 closes and 1 - 4 opens when the relative air humidity drops below the setpoint (see fig.1).

DIMENSIONS (mm)

