



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

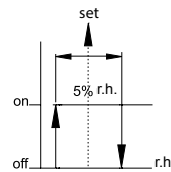
U models with range under the cover

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
 $\cos\phi = 0.7$: 0,1...1 A, 230 Vac
inductive load see schedule
Differential:
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
 t_{50} at 2 m/s: 72 sec
Housing: ABS
Protection: IP20, class II
Size: 115 x 70 x 35 mm
Weight: 130 g

LOGIC OF OUTPUTS

DBZH-101/101U



r.h. > set ↔ r.h. < set

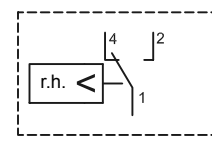
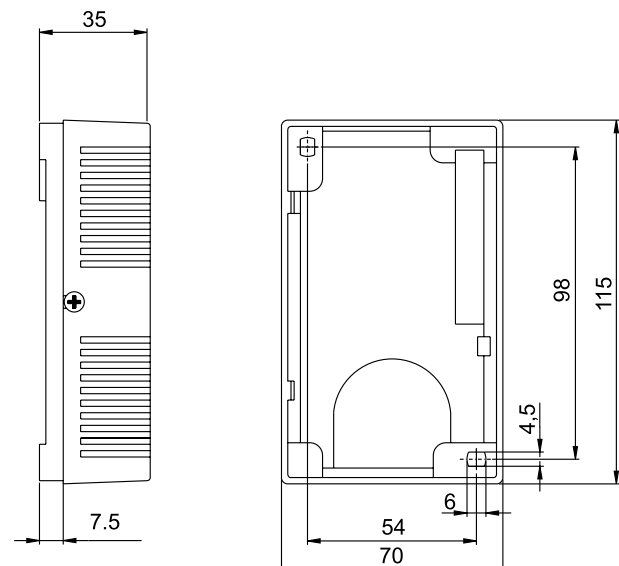


fig. 1

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)



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.	±0,7% r.h.	±0,6% r.h.	±0,6% r.h.	±0,5% r.h.
50% r.h.	±3,5% r.h.	±3,2% r.h.	±3,0% r.h.	±2,6% r.h.
90% r.h.	±6,3% r.h.	±5,7% r.h.	±5,4% r.h.	±4,6% r.h.

