



ROOM HYGROSTATS

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	RANGE r.h.	HYSERESIS IN THE STAGE r.h.	PROTECTION
DBZH-101	35...100%	4%	IP30
DBZH-101U	35...100%	4%	IP30

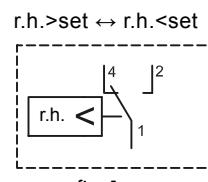
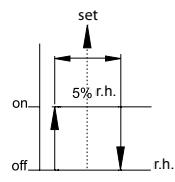
U knob under the cover

TECHNICAL FEATURES

Sensitive element:	several synthetic fabric bands.
Contacts:	dust-tight microswitches with SPDT contacts
Switch capacity: resistive load	(lifetime 50.000 cycles) humidify: 2 A, 250 Vac dehumidify: 5 A, 230 Vac
Inductive load	$\cos \varnothing = 0.8$: 0.2 A, 230 Vac
Inductive load	L/R = 3 ms: 1 A at 50 Vdc 0.5 A at 75 Vdc
Hysteresis and differentials:	see schedule
Working temp.:	0...+60 °C < 95% r.h. (without condensing)
Storage:	-20...+70 °C < 95% r.h.
Temp. coeff.:	see schedule under
Max air speed:	15 m/s
t_{0.5} at 2 m/s:	1.2 min
Housing:	ABS
Protection:	IP20, class II
Size:	115 x 70 x 35 mm
Weight:	130 g

LOGIC OF OUTPUTS

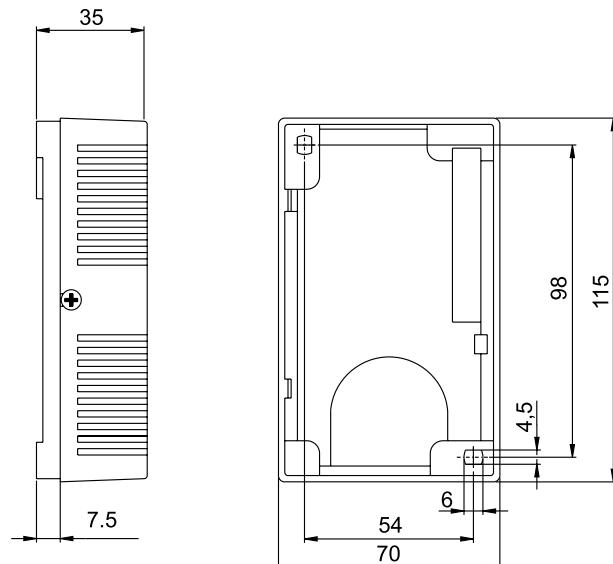
DBZH-101/101U



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 hygrometers 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.

