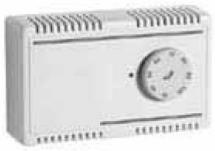
DBZH – room hygrostats



The appearance of the product may differ from the illustration. Technical specifications are subject to change.

DBZH SERIES

APPLICATION AND USE

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

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

KEY FEATURES

Relative humidity room control with:

- setpoint adjustment with knob,
- control of 1 or 2 stage humidifiers and dehumidifiers.

TECHNICAL SPECIFICATION

TYPE	RANGE [r.h.]	STAGES	HYSTERESIS IN THE STAGE [r.h.]	HYSTERESIS BETW. STAGES [r.h.]	SPECIAL VERSIONS
DBZH-101	35...100%	1	4%		U
DBZH-102	35...100%	2	4%	3...15%	U

U Knob under the cover

Sensor:	several synthetic fabric bands
Contacts:	dust-tight microswitches with SPDT contacts
Switch capacity:	
resistive load	(lifetime 50.000 cycles)
	humidify: 2 A, 250 V_{AC}
	dehumidify: 5 A, 230 V_{AC}
Inductive load	cos ϕ = 0.8: 0.2 A, 230 V_{AC}
Inductive load	L/R = 3 ms: 1 A at 50 V_{DC} 0.5 A at 75 V_{DC}
Hysteresis	see table
Working conditions:	0...+60°C < 95% rh. (non condensing)
Storage:	-20...+70 °C < 95% r.h.
Temperature coefficient:	-0.2% r.h./K at 20°C
Max air speed:	15 m/s
$t_{0.5}$ at 2 m/s:	1.2 min
Housing:	ABS
Protection:	IP20, class II
Dimensions:	115 x 70 x 35 mm
Weight:	130 g

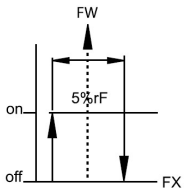
ATTENTION!

The hygrostats must not be in direct contact with water and should be exposed to air flow.
Not suitable for aggressive media.

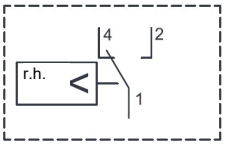
DBZH – room hygrostats

LOGIC OF OUTPUTS

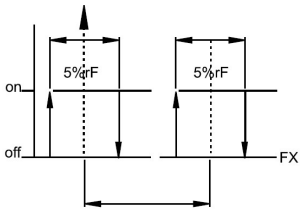
DBZH-101/101U



FX > FW ↔ FX < FW

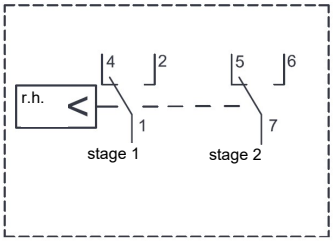


DBZH-102/102U



adjustable zone between 2 stages

FX > FW ↔ FX < FW

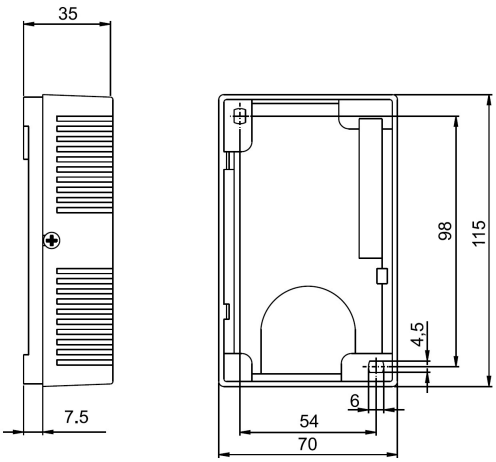


FX relative air humidity (actual value)
FW humidity value set with knob

ELECTRICAL WIRING

The contact 1 - 2 closes and 1 - 4 opens when the relative air humidity drops below the setpoint (see figure).
For the 2 stage version the contacts 1 - 2 and 6 - 7 close and the contacts 1 - 4 and 7 - 5 open when the relative air humidity drops below the setpoint (see figure).

DIMENSIONS [mm]



Due to continuous product improvement, specifications are subject to change without notice.

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