

## DBZH Room Humidistats

DBZH humidistats measure relative room humidity, and are available in one stage or two stage variants.

Room humidity setpoint is available for adjustment by a knob.

The units are well-suited in domestic, commercial and industrial areas for the large variety of applications in the air conditioning field.



### Features

- Relative Humidity Control in Buildings
- Available in Single Stage or Two Stage Variants
- Easy-to-adjust Setpoint

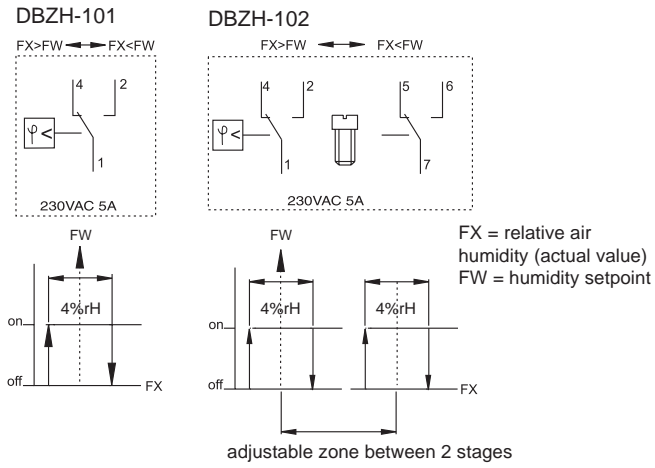
| Model Type            | Model                                  | Description  |
|-----------------------|--|--|
|                       | <b>DBZH-101</b>                        | Single Stage Room Humidistat   |
|                       | <b>DBZH-102</b>                        | Two Stage Room Humidistat, Differential Between Stages 3..15% rH           |
| <b>Technical Data</b> | Sensing Element                        | Several synthetic fabric bands   |
|                       | Range                                  | 35..100% rH  |
|                       | Switching Differential                 | 4% rH  |
|                       | Differential Between Stages (DBZH-102) | 3..15% rH  |
|                       | Switching Contacts                     | SPDT   |
|                       | Switching Capacity                     |  |
|                       | - ohmic load                           | (lifetime 50,000 cycles)<br>humidity: 2A, 250Vac<br>dehumidity: 5A, 230Vac |
|                       | - inductive load                       | cos = 0.8: 0.2A, 230Vac  |
|                       | - inductive load                       | L/R = 3ms: 1A at 50Vdc, 0.5A at 75Vdc                                      |
|                       | Ambient Temp                           | 0..+60°C   |
|                       | Storage Temp                           | -20..+70°C   |
|                       | Temp Coeff                             | -0.2% rH/K @ 20°C  |
|                       | Max Air Velocity                       | 15 m/s   |
|                       | T <sub>0.5</sub> @ 2 m/s               | 1.2 min  |
|                       | Housing                                | ABS  |
|                       | Weight                                 | 0.12 kg  |
|                       | Protection Class                       | IP20 Class I   |
|                       | Dimensions                             | W115 x H70 x D35 mm  |

**INSTALLATION AND WIRING**

The humidistats must not come into direct contact with water and should be exposed to the air flow.  
 Not suitable for aggressive media.

The contacts 1 - 2 close and 1 - 4 open when the relative air humidity drops below the set point (see figure below).

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 set point (see figure below).



**DIMENSIONS**

