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Made in Czech Republic

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## RHV-1

### Hygrostat



#### Characteristics

- single exterior hygrostat for monitoring and regulation of humidity in the and demanding environments (humid and contaminated, aggressive and defective, industrial workshops, washing rooms, green-houses, cellars and cooling boxes...)
- external version in IP65, box for mounting on the wall
- built-in hygro-sensor is integrated in the device
- two functions adjustable by jumper: moistening and drying
- 3 adjustable relative humidity ranges, fine adjustment of the of relative humidity within the range of the potentiometer
- 3 adjustable (by jumper) levels of hysteresis
- supply voltage 230 V AC
- potentialless NO contact 12 A / AC1 switching

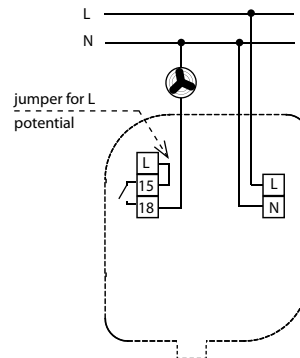
#### Note:

Device is supplied with jumper L-15 (3-wire connection).

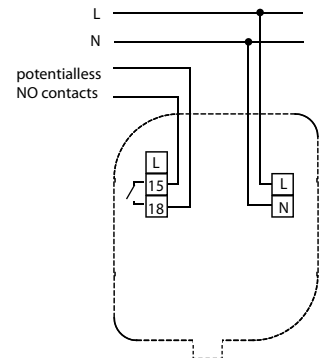
For the correct function of device is necessary sensor-side down device mounting. Attach the device with a suitable bonding material based to the substrate (eg round head screw, Ø 4 mm / 0.2", min. Length 30 mm / 1.2").

#### Connection

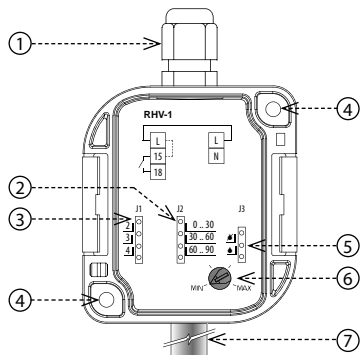
3-wire connection



4-wire connection





#### Description

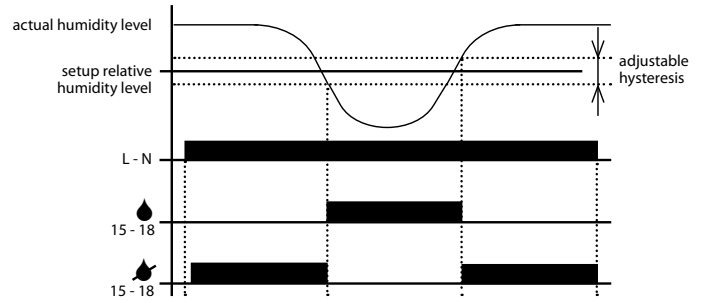


- ♣ - Drying
  - ♠ - Moistening
1. Cable gommet M16x1.5 for cable max. Ø 10 mm / 0.4"
  2. Adjustable range setting (% RH)
  3. Hysteresis (% from value)
  4. Hole for mounting on the wall Ø 4.3 mm / 0.2"
  5. Function setting
  6. Slight setup finish in the frame of range
  7. Humidity sensor

|  |                     |                     |                     |   |  |                 |                   |                     |                     |
|--|---------------------|---------------------|---------------------|---|--|-----------------|-------------------|---------------------|---------------------|
| Type of load                                 | cos φ ≥ 0.95        |                     |                     |   |  |                 |                   |                     |                     |
| Mat. contacts AgSnO <sub>2</sub> contact 12A | AC1<br>250V / 12A   | AC2<br>250V / 3.7A  | AC3<br>250V / 2.2A  | AC5a uncompensated<br>230V / 2.2A (510VA) | AC5a compensated<br>230V / 2.2A (510VA) to max. input C=14uF | AC5b<br>1120W   | AC6a<br>x         | AC7b<br>250V / 2.2A | AC12<br>250V / 7.5A |
| Type of load                                 |                     |                     |                     |   |  |                 |                   |                     |                     |
| Mat. contacts AgSnO <sub>2</sub> contact 12A | AC13<br>250V / 4.5A | AC14<br>250V / 4.5A | AC15<br>250V / 4.5A | DC1<br>24V / 12A                          | DC3<br>24V / 3A  | DC5<br>24V / 3A | DC12<br>24V / 12A | DC13<br>24V / 1.5A  | DC14<br>24V / 1.5A  |

RHV-1

| Supply  |   |
|---|---|
| Supply terminals:   | L - N   |
| Voltage range:  | AC 230 V / 50 - 60 Hz                                       |
| Power input (apparent / loss):  | max. 6 VA / 0.7 W   |
| Max. dissipated power (Un + terminals):   | 2.5 W   |
| Supply voltage tolerance:   | - 15 % .. +10 %   |
| Setting function <span style="float: right;">setting function Jumper J3</span>                    |   |
| Function -  :    | moistening  |
| Function -  :    | drying  |
| Set. the scale of relative humidity <span style="float: right;">humidity setting Jumper J2</span> |   |
| - range 1:  | 0 .. 30 % RH  |
| - range 2:  | 30 .. 60 % RH   |
| - range 3:  | 60 .. 90 % RH   |
| Slight setting of relative humidity:  | potentiometer   |
| Hysteresis <span style="float: right;">2, 3, 4 % from setup rate</span>                           |   |
| Hysteresis setting:   | Jumper J1   |
| Output  |   |
| Number of contacts:   | 1x NO-SPST (AgSnO <sub>2</sub> )                            |
| Current rating:   | 12 A / AC1  |
| Breaking capacity:  | 3000 VA / AC1, 384 W / DC                                   |
| Inrush current:   | 30 A / < 3 s  |
| Switching voltage:  | 250 V AC / 24 V DC  |
| Mechanical life:  | 3x10 <sup>7</sup>   |
| Electrical life (AC1):  | 0.7x10 <sup>5</sup>   |
| Other information   |   |
| Operating temperature:  | -30 °C .. 60 °C (-22 °F .. 140 °F)                          |
| Storage temperature:  | -30 °C .. 70 °C (-22 °F .. 158 °F)                          |
| Electrical strength:  | 4kV (supply-output)   |
| Operating position:   | sensor-side down  |
| Protection degree:  | IP65  |
| Overvoltage category:   | III.  |
| Pollution degree:   | 2   |
| Max. cable size (mm <sup>2</sup> ):   | max. 1x 2.5, max. 2x 1.5 / with sleeve max. 1x 2.5 (AWG 12) |
| Suggested power-supply cable:   | CYKY 3x 2.5 (CYKY 4x 1.5)                                   |
| Dimensions:   | 153 x 62 x 34 mm (6" x 2.4" x 1.3")                         |
| Weight:   | 124 g (4.4 oz.)   |
| Standards:  | EN 60730-2-9, EN 61010-1                                    |



Warning

The device is constructed to be connected into 1-phase main and must be installed in accordance with regulations and norms applicable in a particular country. Installation, connection and setting can be done only by a person with an adequate electro-technical qualification which has read and understood this instruction manual and product functions. The device contains protections against over-voltage peaks and disturbing elements in the supply main. To ensure correct function of these protection elements it is necessary to front-end other protective elements of higher degree (A, B, C) and screening of disturbances of switched devices (contactors, motors, inductive load etc.) as it is stated in a standard. Before you start with installation, make sure that the device is not energized and that the main switch is OFF. Do not install the device to the sources of excessive electromagnetic disturbances. By correct installation, ensure good air circulation so the maximal allowed operational temperature is not exceeded in case of permanent operation and higher ambient temperature. While installing the device use screwdriver width approx. 2 mm. Keep in mind that this device is fully electronic while installing. Correct function of the device is also depended on transportation, storing and handling. In case you notice any signs of damage, deformation, malfunction or missing piece, do not install this device and claim it at the seller. After operational life treat the product as electronic waste.