

**RH-2  
RHT**

**Room hygrostat**



**Summary**

**RH-2 is a one-stage mechanical room hygrostat for wall mounting.  
RHT is a one-stage mechanical room hygro-termostat for wall mounting.**

**Applications**

- **HVAC systems – humidity control, exhaust air control, or reheating of residential premises, laboratories, bathrooms, switchboards, and technological rooms**
- **Indication of exceeding or dropping below humidity setpoint**
- **Indication of exceeding or dropping below temperature setpoint (only RHT)**

**Function**

The measuring element activates the switching contact when relative humidity exceeds the setpoint. The setpoint is set either inside of the housing or with a knob on the front of the device.

Hygrostats are designed for use in standard environment. They do not require maintenance and can be installed in any position. Make sure that proper air circulation through the apertures is maintained. Fix the device with 2 or 4 screws on a 55 mm flush-mounted box or any flat surface. In the bottom there is an aperture for cable installation.

**Technical data**

Switched voltage	24 ... 230 V AC
Measuring range	RH-2 25... 95 % rH RHT 35 ... 100 % rH
Switched current	dehumidification 5 (0,2) A, min. 100 mA humidification 3 (0,2) A, min. 100 mA
Contact	1 switching potential-free contact
Measuring element	plastic fibre
Hysteresis	about 4 % rH
Tolerance	max. 3 % rH
Ambient temperature	RH-2 0 ... 40 °C RHT 0 ... 60 °C
Cover	ABS, colour similar to RAL 9010

Dimensions	RH-2 98 x 106 x 34 mm RHT 147,5 x 75 x 28,6 mm
Connection	screw terminals for wires 0,14 – 1,5 mm <sup>2</sup>
Protection degree	IP30 according EN 60 529

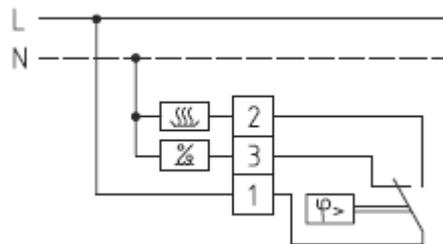
## Types

RH-2	external setpoint
RH-2U	internal setpoint (external knob is not installed)
RHT	external setpoint

mouting on in-wall flush boxes witch horizontal fixing holes, adapter frame **ARA 1,7 E** must be included in the order

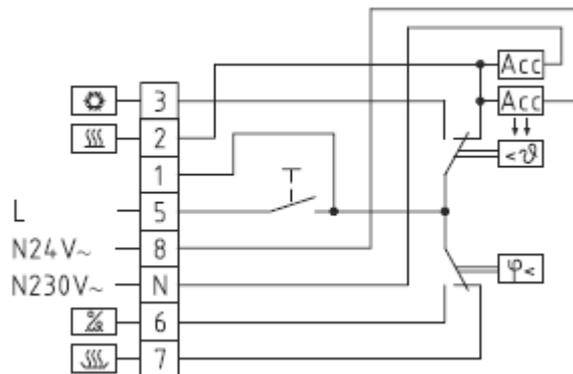
## Terminals

### RH-2 (U)



- |          |                  |  |
|----------|------------------|--|
| <b>1</b> | common           |  |
| <b>2</b> | dehumidification | 2 connects to 1 when the setpoint is exceeded                |
| <b>3</b> | humidification   | 3 connects to 1 when humidity drops below the setpoint value |

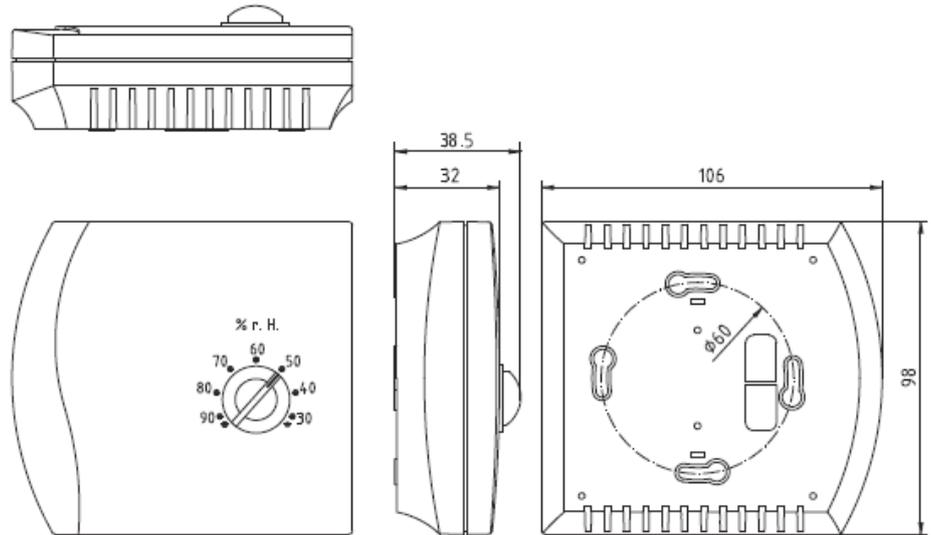
### RHT



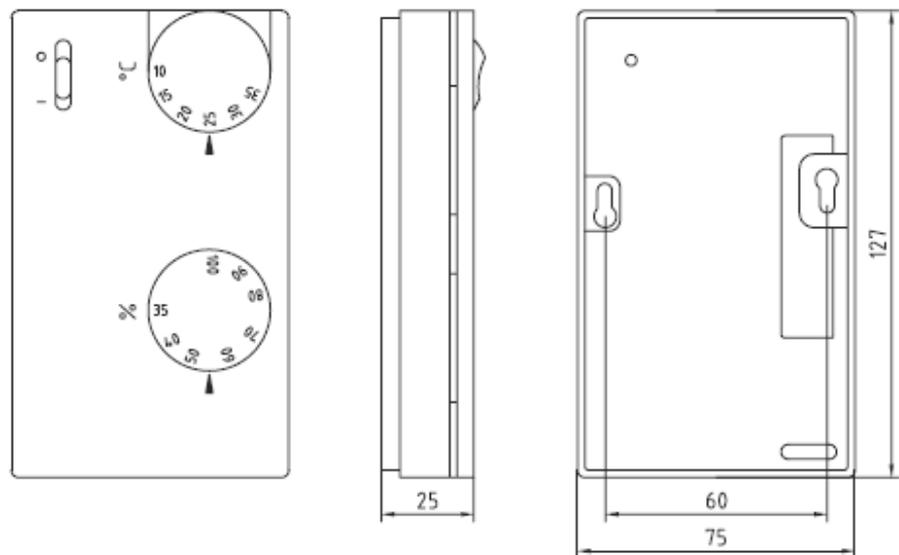
- |             |                  |   |
|-------------|------------------|---|
| <b>1</b>    | common           |   |
| <b>5, 7</b> | dehumidification | 5 connects to 7 until the setpoint is exceeded                  |
| <b>5, 6</b> | humidification   | 5 connects to 6 when humidity drops below the setpoint value    |
| <b>2, 5</b> | heating          | 2 connects to 5 until the setpoint is exceeded                  |
| <b>3, 5</b> | cooling          | 3 connects to 5 when temperature drops below the setpoint value |
| <b>8, N</b> | night decrease   |   |

# Dimensions

## RH-2



## RHT



8/2013 Subject to technical changes.