

## Temperature and humidity regulator with RS485 output, cable 2 meters

code: H3431-2



Humidistat, thermostat with two relay outputs. Outdoor, indoor use.

Relative humidity, temperature probe on a cable. Measured values are also converted to other humidity interpretation: dew point temperature, absolute humidity, specific humidity, mixing ratio, specific enthalpy. Three two-state inputs.

The device is supplied with T+RH probe with 2 meters cable.

### Technical data

|                                        |                                                                                                   |
|----------------------------------------|---------------------------------------------------------------------------------------------------|
| TEMPERATURE SENSOR                     |                                                                                                   |
| Measuring range                        | -30 to +105 °C                                                                                    |
| Accuracy                               | ±0.4 °C                                                                                           |
| Resolution                             | 0.1 °C                                                                                            |
| HUMIDITY SENSOR                        |                                                                                                   |
| Measuring range                        | 0 to 100 % RH                                                                                     |
| Accuracy                               | ±2.5 % RH from 5 to 95 % at 23 °C                                                                 |
| Resolution                             | 0.1% RH                                                                                           |
| DEW POINT                              |                                                                                                   |
| Measuring range                        | -60 to +80 °C                                                                                     |
| Accuracy                               | ±1.5 °C at ambient temperature T <25 °C and RH >30 %                                              |
| Resolution                             | 0.1 °C                                                                                            |
| RELAY OUTPUTS                          |                                                                                                   |
| Quantity                               | 2                                                                                                 |
| Maximal voltage                        | 50 V                                                                                              |
| Maximal current                        | 2 A                                                                                               |
| Maximal power                          | 60 VA                                                                                             |
| BINARY INPUTS                          |                                                                                                   |
| Quantity                               | 3                                                                                                 |
| Signal for binary inputy               | dry contact, open collector or two-state voltage signal.<br>Inputs are not galvanically isolated. |
| Minimum pulse duration on binary input | 500 ms                                                                                            |
| Voltage across open contact            | < 3,3 V                                                                                           |
| Low voltage level                      | 0 to +0,5 V                                                                                       |
| High voltage level                     | +3,0 to +30 V                                                                                     |
| GENERAL TECHNICAL DATA                 |                                                                                                   |
| Operating temperature                  | -30 to +80 °C                                                                                     |

|                                                   |                                                                                  |
|---------------------------------------------------|----------------------------------------------------------------------------------|
| Channels                                          | 1x connectable temperature+humidity probe                                        |
| Counted values                                    | dew point, absolute humidity, specific humidity, mixing ratio, specific enthalpy |
| Acoustic alarm                                    | from built-in beeper - switchable                                                |
| Output                                            | RS485                                                                            |
| Range of humidity sensor temperature compensation | all temperature range                                                            |
| Available temperature units                       | degrees Celsius, degrees Fahrenheit                                              |
| Communication protocol                            | ModBus RTU, ARION, Advantech ADAM                                                |
| Power                                             | 9-30 Vdc                                                                         |
| Protection class                                  | IP65 electronics; IP40 sensors                                                   |
| Dimensions                                        | 136 x 159 x 45 mm; length/diameter of external probe 88/18 mm                    |
| External probe cable length                       | 2 meters                                                                         |
| Weight                                            | approx. 500 g                                                                    |
| Warranty                                          | 3 years                                                                          |