

## 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 input                | 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   |

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|---|--|
| 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<br>88/18 mm                 |
| External probe cable length                       | 2 meters   |
| Weight  | approx. 500 g  |
| Warranty  | 3 years  |