

## Compressed air temperature and humidity regulator

code: H3021P



Humidistat, thermostat with two relay outputs. T+RH probe from hard anodized duralumin for compressed air up to 25 bars. Outdoor, indoor use.

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.

The device is supplied with T+RH probe with 1m 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   |
| MEASURING THE MOISTURE OF COMPRESSED AIR |  |
| Measuring range                          | up to 25 bars  |
| Air flow velocity                        | up to 25 m/s at a pressure of 1 bar (1m/s at a pressure of 25 bar)               |
| RELAY OUTPUTS                            |  |
| Quantity                                 | 2  |
| Maximal voltage                          | 50 V   |
| Maximal current                          | 2 A  |
| Maximal power                            | 60 VA  |
| 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                                |
| 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 | 1 meter  |
| Weight                      | approx. 400 g  |
| Warranty                    | 3 years  |