

## Compressed air RH+T transmitter with RS485 output

code: T3419P



Humidity, temperature transmitter. T+RH probe from hard anodized duralumin for compressed air up to 25 bars on the cable. 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 1 meter 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 for dew point temperature +10°C and higher at ambient temperature +25°C<br>±2.0°C for dew point temperature 0°C at ambient temperature +25°C<br>±3.0°C for dew point temperature -10°C at ambient temperature +25°C<br>±6.0°C for dew point temperature -20°C at ambient temperature +25°C |
| 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)                                                                                                                                                                                                                                |
| 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                                                                                                                                                                                                                  |
| 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                  | 88,5 x 114 x 39,5 mm; length/diameter of external probe 88/18 mm |
| External probe cable length | 1 meter                                                          |
| Weight                      | approx. 210 g                                                    |
| Warranty                    | 3 years                                                          |