

## 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  |