Compressed air RH+T+Tdp sensor with 4-20mA output



code: T3111P

Humidity, temperature transmitter. T+RH probe from hard anodized duralumin for compressed air up to 25 bars on the cable. Outdoor, indoor use.
Relative humidity, temperature sensors at probe on the 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 ±2.0°C for dew point temperature 0°C at ambient temperature +25°C ±3.0°C for dew point temperature -10°C at ambient temperature +25°C ±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	4-20 mA, galvanic isolated
Range of humidity sensor temperature compensation	all temperature range
Configuration of output	user adjustable from PC; measured range + value
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