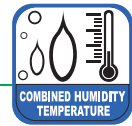# HUMIDITY-TEMPERATURE SENSOR

Combined - for two parameters

A particular feature...

of this compact sensor is the sophisti-cated electronics and the guaranteed outstanding measuring accuracy.

The high-quality capacitive measuring element is reliably protected against air pollutants by a membrane filter. The combined sensor is designed for high-quality use in meteorology and industry.

The user can independently calibrate the sensor using the calibration and adjustment software.

► capacitive humidity measuring element
► special resistance to air pollutants
► high long term stability
► signal output humidity:
   0...1 V (linear 0...100 %)
► temperature measuring element:
   Pt100 1/3 DIN
► signal output temperature:
   4-wire-circuit Pt100

building technology • traffic systems • automatic weather stations

Professional Line	(8092.3)	Humidity-Temperature Sensor	Id-No. 00.08092.330 402

Measuring elements:	capacitive • Pt100 1/3 DIN (DIN EN 60571) · IEC 751 class B (± 0.1 °C)
Measuring range:	0...100 % r. h. • -40...+85 °C
Accuracies:	± 1.5 % r. h. at 10...90 % r. h. · at 23 °C ‹ 10 % r. h. › 90 % r. h. ± 2 % r. h.
	temperature influence TK (does not equal 23 °C): ‹ 0.02 % r. h. /K
Time constant:	humidity ‹ 20 s (without wind and filter, otherwise at 1.5 m/s: 1.5 min
Long-term stability:	typical under normal conditions ‹ 1 % r. h./ year
Outputs:	0...1 V DC = 0...100 % r. h. • min. load resistance ≥ 2.0 kΩ • Pt100 (4-wire circuit)
Supply voltage:	5...30 V DC
Current consumption:	‹ 3 mA
Sensor protection:	membrane filter for outdoor applications · Ø 20 x 25 mm · M18 x 1
Housing:	aluminium · lacquered · grey • IP 65 • sensor filter area IP 30
Dimensions/ Weight:	H 122 mm · Ø 20 mm • approx. 0.3 kg
Standards:	CE/ EMC: EN 61326-2-3

Accessories:

00.08141.600 000	(8141.6)	**Sensor shelter** for sensor (8092.3)
32.08092.061 050		**Cable 5 m** with cable socket
		Further accessories on request, e. g.: Humidity standard