

## 8091 HUMIDITY-TEMPERATURE SENSOR





## Special resistance ...

to airborne pollutants as a result of the use of a high-quality measuring element! This ensures - in combina-tion with the high-quality electro-nics - excellent measuring accuracy and long-term stability. As a consequence, the sensor (8091) is particularly appropriate for measurements outdoors, in various areas of application.

- small, light, compact
- · simple mounting, very robust, low-maintenance
- $\cdot$  low power consumption
- · good dynamic behaviour
- · reliable membrane filter as protection against atmospheric pollutants
- · high long-term stability

## **APPLICATIONS**

- building technology
- industry

Professional Line	8091 Humidity-temperature sensor
ld-No.	00.08091.000042
	00.08091.000012
Meas. range air temperature	-30+70 °C
Meas. range rel. humidity	0100 % r. h.
Accuracy air temperature	± 0.3°C (420 mA); plus ± 0.007 K/K (< 10°C, > 40°C)
Accuracy rel. humidity	± 2 % r. h. (595 % r. h. at 1040°C); plus < 0.1 %/ K (<10°C, >40°C)
Response time	< 1 min

Continued on page 2



Professional Line	8091 Humidity-temperature sensor
Long-term stability	typical under normal conditions < 1% r. h./ year
Output	00.08091.000042: 420 mA
	00.08091.000012: 010 VDC
Supply voltage	00.08091.000042: 1230 VDC
	00.08091.000012: 1530 VDC
Power consumption	max. 45 mA
Measuring elements	capacitive • Pt100 • IEC 751 class B
Dimensions	H 180 mm • Ø 20 mm
Housing	aluminium • lacquered • grey-white
Protection class	IP 65 • membrane filter as sensor protection IP 30
Weight	0.34 kg
Standards	CE/ EMV: DIN 50082-2 • EN 550011 cl. B
Accessories (order separately)	00.08141.600000 Sensor shelter with natural ventilation
	00.08141.600004 Sensor shelter with artificial ventilation
	67.01002.056041 Cable: 4 x AWG 20 C UL sw

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