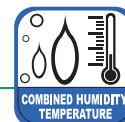


HUMIDITY-TEMPERATURE SENSOR



Combined · for two parameters



Sensor shelter (accessory)

Sensor (8093.1)

Aloft...

or at the roadside this humidity temperature sensor (8093.1) is most commonly used. The instrument is characterized by the high-quality measuring elements, robust housing, reliable membrane filter and low-current electronics. Thus the sensor (8093.1) is especially suitable for meteorological outdoor measurements in very different application fields.

- small, light, compact
- easy installation, robust, nearly maintenance free
- low power consumption
- good dynamical behaviour
- reliable membrane filter as protection against pollutants
- high long-term stability and nearly linear characteristic line

building technology • traffic systems • automatic weather stations • buoys • agricultural weather stations • energy supply and disposal systems • environmental measurement technology

Professional Line	(8093.1) Humidity-Temperature Sensor	Id-No. 00.08093.100 000
Measuring elements:	capacitive • Pt100 1/3 DIN · IEC 751 class B	
Measuring range:	0...100% r. h. • -30...+70 °C	
Accuracies:	± 2 % r. h. at 5...95 % r. h. • +10...+40 °C ± 0.2 °C at -27...+70 °C	Plus: < 0.1 % r. h./ °C at < +10 °C and > +40 °C Plus: ± 0.007 °C/ °C at < +10 °C and > +40 °C
Response time:	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 ≥ 2.5 kΩ • Pt100 (4-wire circuit)	
Supply voltage:	10...30 V _{DC}	
Current consumption:	< 1 mA	
Housing:	aluminium · lacquered · grey-white • IP 65 • membrane filter as sensor protection IP 30 • incl. 5 m cable	
Dimensions/ Weight:	H 122 mm · Ø 20 mm • approx. 0.3 kg	
Standards:	CE/ EMC: DIN 50082-2 · EN 550011 Cl. B	
Accessory:		
00.08141.600 000	(8141.6) Sensor shelter for sensor (8093.1)	