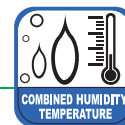


HUMIDITY-TEMPERATURE SENSOR



Combined - for two parameters !



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
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 ≥ 2.5 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	
Accessories:		
00.08141.400 000	(8141.4) Sensor shelter for sensor (8093.1) Data logger TROPOS	