HUMIDITY-TEMPERATURE SENSOR

COMBINED HUMIDITY TEMPERATURE

Combined - for two parameters !

ANALOG OUTPUT

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	Plus: ‹ 0.1% r. h./ °C at ‹ +10°C and › +40°C
		± 0.2 °C at -27...+70 °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	