HUMIDITY-TEMPERATURE SENSOR

Precision measuring instrument...

for measuring relative humidity and air temperature.

The compact sensor is characterised by a power-saving electronic and high measuring accuracy. A membrane filter reliably protects the high-quality capacitive measuring element from air pollutants.
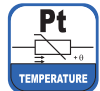
- measuring element temperature: Pt100 1/3 DIN
- capacitive humidity
- measuring element
- high measuring accuracy
- special resistance to air
- pollutants
- high long-term stability

high-quality use in meteorology and industry • automatic weather stations in all climatic zones

Sensor 8096

Sensor shelter (accessory)

0 ...1V ANALOG OUTPUT

V4A METAL MATERIAL

Pt TEMPERATURE

IP 65 PROTECTION RATING

Professional Line	**(8096)**	**Humdity-Temperature Sensor**	**Ident-Nr. 00.08096.230402**
Measuring elements:		Humidity: capacitive	
		Temperature: Pt100 1/3 DIN (DIN EN 60571) · IEC 751 Class B (± 0.1 °C)	
Range of application:		0...100 % r. h. • -40...+70 °C	
Measuring range:		0...100 % r. h. • -40...+70 °C	
Accuracy:		Humidity: ± 2 % r. h. at: 5...95 % r. h. • +10...+40 °C (at ≥ 0.5 m/s)	
		Plus: < 0.1 % r. h./ °C at: < +10 °C • > +40 °C	
		Temperature: ± 0.1 °C, 1/3 DIN IEC 751 Class B	
Response time:		Humidity: < 20 s (without wind and without filter, otherwise at 1.5 m/s: 1.5 min)	
Minimum air velocity:		≥ 0.5 m/s	
Output signal:		Humidity: 0...1 V DC = 0...100 % r. h. • min. load resistance ≥ 2 kOhm	
		Temperature: Pt100 (4-wire circuit)	
Supply voltage:		6...30 V DC	
Current consumption:		< 1 mA	
Sensor protection:		membrane filter for outdoor use	
Cable:		3.3 m · fixed cable	
Housing:		stainless steel · IP 65 · protection class of filter IP 40	
Weight:		approx. 0.3 kg	
EMC:		DIN EN 60945 - Chapter 9, 10	
Accessory:			
00.08141.600000	**(8141.6)**	**Sensor shelter for (8096)**	

LAMBRECHT meteo