

HUMIDITY-TEMPERATURE SENSOR

Shock and vibration-tested...

precision 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.

- shock- and vibration-tested in accordance with BV0230/ 0430 and BV0440/ 0240
- EMC-prooved in accordance with VG 95373
- sensor is supplied with Calibration Certificate
- high measuring accuracy
- special resistance to air pollutants
- high long-term stability

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















Sensor shelter (accessory)

Professional Line	(8096-Z)	Humidity-Temperature Sensor	Id-No. 00.08096.330402
Measuring elements:		Humidity: capacitive	
		Temperature: Pt100 1/3 DIN (DIN EN 60571) \cdot IEC 751	Class B (± 0.1 °C)
Range of application:		0100 % r. h. • -40+70 °C	
Measuring range:		0100 % r. h. • -40+70 °C	
Accuracy:		Humidity: ± 2 % r. h. at: 595 % 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: 01 VDC = 0100 % r. h. • min. load resistan	nce ≥ 2 kOhm
		Temperature: Pt100 (4-wire circuit)	
Supply voltage:		630 VDC	
Current consumption:		< 1 mA	
Sensor protection:		membrane filter for outdoor use	
Cable:		3.3 m · fixed cable	
Housing/ Weight:		stainless steel \cdot IP 65 \cdot protection class of filter IP 40 \circ	approx. 0.3 kg
EMC:		DIN EN 60945 - Chapter 9, 10 + VG 95 373	
Shock/ Vibration:		BV0230/ 0430 • BV0440/ 0240	
Accessory:			
00.08141.620 000		Sensor shelter for protection of the sensor against radiation influences	

