

DEW POINT SENSOR SHS-A5



Order No. 18 76 20

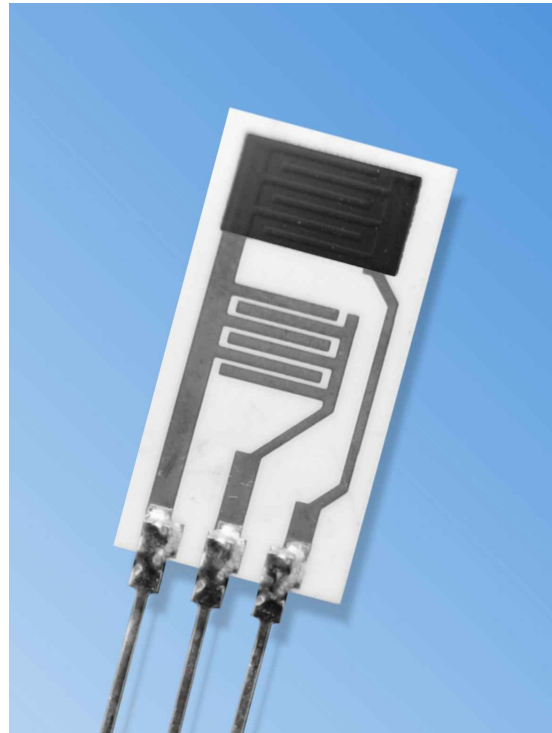


Characteristic features

- ▶ Detection of high humidity, dew formation or condensation
- ▶ Additional interdigital structure for independent detection of water
- ▶ Application range from 0% to 100 rH, 0 to 60 °C
- ▶ Model with SIL-contacts for PCB

Typical areas of application

- ▶ Building instrumentation, cool ceiling controller, air-conditioning
- ▶ Moisture protection in switcher panels and electrical equipment
- ▶ Monitoring of flat roofs
- ▶ Condensate detection in outside directed walls
- ▶ Ventilation control in sanitary rooms
- ▶ Leakage monitor for waterproof housings



Features

The Humidity sensor SHS A5 is a combined sensor for detecting the onset of condensation with additional interdigital structure (conductance sensor) for detection of liquid water or condensate. The exponentially rising resistive characteristics in the upper humidity region facilitates simple signal processing and a stable switching behaviour on dew formation threshold.

The ceramic substrate can become a thermal contact on the reverse side to sense surface humidity. Through SIL-contacts, the component can be directly mounted on the printed circuit board.

Other models, for example, with connection leads and plug are also available on request.

Technical Data

Resistive Dew point sensor SHS-A5	
Measuring principle	resistive humidity sensor, additional conductance sensing structure
Humidity range	0...100% relative humidity
Temperature range	0...60 °C
Impedance at rH<75%	< 20 kOhm
Impedance at rH<93%	< 100 kOhm
Impedance at rH>97%	> 150 kOhm
Interdigital structure	Conductance structure, approx. 10 µS
max. evaluation voltage	Res. Sensor < 0.8 Vpp ~/ Conductance < 2 Vpp ~
Base substrate	Ceramic, 20 x 10 x 0,6 mm
Contacts	3 SIL-contacts RM 2.54 mm, l=20 mm
Ordering No.	SHS-A5
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Example circuits, Evaluation-Kits und complete Module available on request !	

You will get more informations on:

www.hygroSens.com

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