



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
- ▶ Mounting plate for simple contact with surfaces

Typical areas of application

- ▶ Building instrumentation, cool ceiling controller, air-conditioning
- ▶ Moisture protection in switchger panels and electrical equipment
- ▶ Copiers, Video equipment
- ▶ Condensate detection in outside directed walls
- ▶ Ventilation control in sanitary rooms
- ▶ Leakage monitor for waterproof housings



Features

The resistive humidity sensor SHS A1 is a resistive dew formation sensor for detecting the onset of condensation. The exponentially rising resistive characteristics in the upper humidity region facilitates simple signal processing and a stable switching behaviour on dew formation threshold.

For quick and safe assembly, the ceramic substrate is mounted on a base plate. Hence, the sensor can be screwed onto the object for thermal contact to sense the surface humidity.

The item is supplied with connection lead and plug to facilitate simplest connection to the circuit

Other models, for example, with SIL contact strips are also available on request (SHS A3, A4).

You will get more informations on:

www.hygroSENS.com

Technical Data

Resistive Dew point sensor SHS-A1	
Measuring principle	resistive humidity sensor
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 switch, approx. 10 µS
max. evaluation voltage	< 0.8 Vpp ~/=
Base plate	Steel, 20 x 12 x 0.6 mm
Connention lead	80 mm, plug R 2.54 mm
Socket	Yeon Ho Electronics P/N : 20010WS-02000
Ordering No.	SHS A1
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Example circuits, Evaluation-Kits und complete Module available on request !	