Humidity & Temperature Sensor SHT11

Sensirion introduces the new generation of integrated relative humidity and temperature sensor systems with outstanding performance. Based on intelligent CMOSens[®] technology, the SHT11 offers you maximum ease-of-use and excellent long-term stability.

- _ Relative humidity & temperature
- _Dew point
- _Fully calibrated
- _ Digital 2-wire interface
- _Excellent long-term stability
- _ Designed for high volume applications
- _ Cost-effective

powered by

www.sensirion.com



Your partner for innovative sensor solutions.





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DABECO

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Features

- _Combined relative humidity and temperature measurement _Precise dew point measurement
- _Fully calibrated, interchangeable without recalibration
- _Ultra fast response time
- _Digital 2-wire interface (no external components required)
- _Ultra small size (7.5 x 5 x 2.5 mm)
- _High reliability
- _Optimized for long-term stability
- _Fully immersible
- _Low power due to measurement on demand
- _Self test capability of sensor elements
- _Heatable sensor elements for excellent precision and stability

Specifications

_Relative Humidity (RH) Range: Accuracy: Response time: Reproducibility: Resolution: Operating temperature:

0 to 100 % RH ± 3.5 % RH (20 to 80 % RH) ≤ 4 sec. ± 0.1 % RH 0.03 % RH -40°C to 120°C

_Temperature (T)

Range: Accuracy: Response time: Reproducibility: Resolution:

-40°C to 120°C ± 0.5°C @ 25°C, ± 0.9°C (0°C - 40°C) ≤ 20 sec. ± 0.1°C 0.01°C

Electrical Data

_Power consumption: _Vert Constraints of the second seco

Packaging Information

_The sensor system is packaged as a surface mountable device and mountable in standard SMD assembly lines _The whole system, including packaging, is qualified

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