# Digital-output relative humidity & temperature sensor/module – DHT11



### Resisitive-type humidity and temperature module/sensor

#### 1. Feature & Application:

- \* Calibrated digital signal \*Outstanding long-term stability \*Extra components not needed
- \* Long transmission distance \* Low power consumption \*4 pins packaged and fully interchangeable

#### 2. Description:

DHT11 output calibrated digital signal. It utilizes exclusive digital-signal-collecting-technique and humidity sensing technology, assuring its reliability and stability. Its sensing elements is connected with 8-bit single-chip computer.

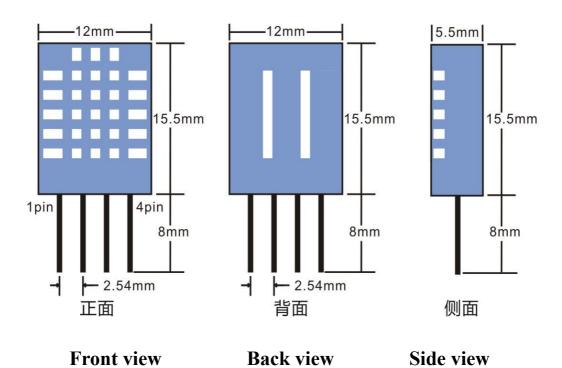
Every sensor of this model is temperature compensated and calibrated in accurate calibration chamber and the calibration-coefficient is saved in OTP memory.

Small size & low consumption & long transmission distance(20m) enable DHT11 to be suited in all kinds of harsh application occasions. Single-row packaged with four pins, making the connection very convenient.

## 3. Technical Specification:

Model	DHT11
Power supply	3-5.5V DC
Output signal	digital signal via single-bus
Sensing element	Polymer resistor
Measuring range	humidity 20-90%RH;
	temperature 0-50 Celsius
Accuracy	humidity +-4%RH (Max +-5%RH);
	temperature +-2.0Celsius
Resolution or	humidity 1%RH; temperature 0.1Celsius
sensitivity	
Repeatability	humidity +-1%RH; temperature +-1Celsius
Humidity hysteresis	+-1%RH
Long-term Stability	+-0.5%RH/year
Sensing period	Average: 2s
Interchangeability	fully interchangeable
Dimensions	size 12*15.5*5.5mm

## 4. Dimensions: (unit----mm)



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