Aosong (Guangzhou) Electronics Co., Ltd. is the world's leading Humidity sensor manufacturer. Aosong provides highly reliable solutions that are not only easy to install and use, but also extremely cost-effective.

Located in Guangzhou, China, Aosong has been supplying Humidity and Temperature (RH&T)Sensors, Condensation sensors, RH&T Transmitters, RH&T Monitors, Dew point Mirror Meter since 2003. With Aosongi⁻s capacitive humidity sensor, state-of-the-art test equipments, and our quality system which is certified to ISO 9001:2015, we can therefore offer all our products with a generous warranty, guaranteeing reliability and unique performance.



Supply voltage: DC 3.3 to 5.5V Measuring range (T) : -20 to +60 Celsius(-4 to +140 Fahrenheit) Measuring range (RH): 5 to 95% relative humidity Typ. Temperature accuracy: ±2 Celsius Typ. Humidity accuracy: ±5%RH at 25 Celsius Long term drift(T): <1 Celsius/year Long term drift(RH) : <1%RH/year Resolution(T): 0.1 Celsius Resolution(RH): 1%RH Sensor Type: Capacitive sensor Interface: One line digital Housing material: ABS Net weight: 1g

Description:

DHT11 output calibrated digital signal. It applys 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 type of programme in OTP memory, when the sensor is detecting, it will cite coefficient from memory.

Small size & low consumption & long transmission distance(100m) enable DHT11 to be suited in all kinds of

harsh application occasions. Single-row packaged with four pins, making the connection very convenient.

Model	DHT11	
Power supply	3.3-5.5V DC	
Output signal	Aosong 1-wire bus digital signal	
Sensing element	Polymer humidity resistor	
Measuring range	humidity 20-90%RH;	temperature 0~50Celsius
Accuracy	humidity +-5%RH;	temperature +-2Celsius
Resolution or	humidity 1%RH;	temperature 1Celsius
sensitivity		
Repeatability	humidity +-2%RH;	temperature +-1Celsius
Humidity hysteresis	+-1%RH	
Long-term Stability	+-1%RH/year	
Interchangeability	fully interchangeable	