Temperature-Humidity-Sensor User Manual

1. **Product features**

sensor	DHT11
voltage	3.3V-5.5V
Humidity measurement range	20%-95%
Humidity measurement error	+/-5%
Temperature measurement range	0-50℃
Temperature measurement error	+/-2℃
Fixed hole size	2.0mm

Principle:

DHT11 digital temperature and humidity sensor is a temperature and humidity composite sensor with calibrated digital signal output. It consists of a resistive humidity sensor and a NTC temperature sensor. Each DHT11 sensor is calibrated in an extremely accurate humidity calibration chamber. The calibration coefficients are stored in OTP memory in the form of program. The calibration coefficients are called in the process of signal processing inside the sensor, and the user does not need to recalibrate. Single line serial interface makes system integration easy and fast. Ultrasmall volume, low power consumption, signal transmission distance up to 20 meters.

2. **Main application**
Detection of ambient temperature and humidity.

3. **Interface definition**

PIN	Name	Description
1	GND	GROUND
2	DOUT	Digital output
3	VCC	3.0-5.3V