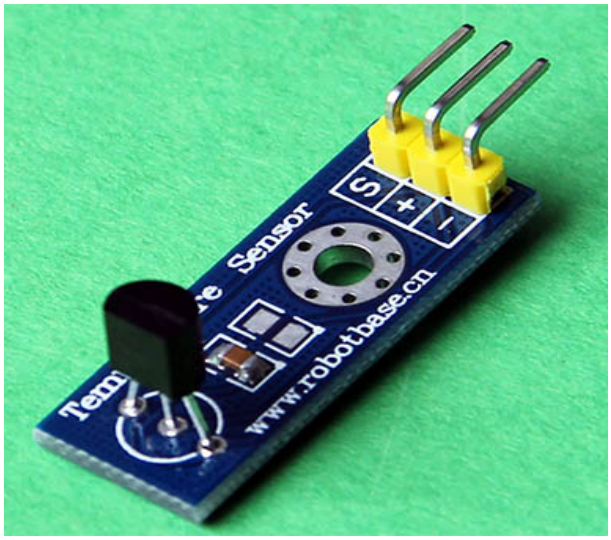
Arduino Temperature Sensor

Model:LM35DZ



Description:

The LM35 NS (National Semiconductor) production, it has high precision and wide linear working range, the output voltage of the device with the Celsius temperature linear proportional each increased by 1 ° C increase in output voltage of 10mV. The use of point of view, the thermocouple commonly used for high temperature measurement, the platinum resistor for temperature measurement (about 800 degrees Celsius), thermistors and semiconductor temperature sensor suitable for measuring temperatures below 200 degrees, the LM35 is a semiconductor temperature compared to the sensor with the Kelvin standard linear temperature sensor more strengths, the LM35 requires no external calibration or fine-tuning, and can provide commonly used at room temperature accuracy of ± 1 ° C / 4. LM35 temperature sensor module can not only be a 3P sensor cable plugs directly into the Arduino Sensor Shield V5.0 sensor expansion board or the Arduino MEGA Sensor Shield, V1.0 Special Sensor expansion board with a variety of microcontroller developmentboard, the robot the controller is connected, easy to ambient temperature detection is commonly used sensors to create interactive works with the smart robot.

Specifications:

1-the working voltage: DC 4 ~ 30V;
2-work current: less than 133uA
3-the output voltage: +6 V ~-1.0V
4-output impedance: 1mA load 0.;1
5-precision: 0.5 C Accuracy (at +25 C pm);
6-leakage current: less than 60uA;
7-the ratio factor: Linear +10.0 mV / C;
8-non-linear value:+_ 1 / 4 C;
9-calibration methods: the direct use of Celsius temperature calibration;
10-rated temperature range: -55 ~ +150 C.
11-Pin Description: 1. the negative power supply GND; 2. power supply is VCC; 3. signal output S

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