

HC-SR04 Ultrasonic Distance Sensor

The HC-SR04 Ultrasonic Distance Sensor is an inexpensive device that is very useful for robotics and test equipment projects. This tiny sensor is capable of measuring the distance between itself and the nearest solid object.

The HC-SR04 can be hooked directly to an Arduino or other microcontroller and it operates on 5 volts. It can also be used with the Raspberry Pi, however since the HC-SR04 requires 5-volt logic you'll need a couple of resistors to interface it with the Pi's 3.3 volt GPIO port.

This ultrasonic distance sensor is capable of measuring distances between 2 cm to 450 cm. It's a low current device so it's suitable for battery powered devices.

Specification:

1. Operating Voltage: 5V
2. Static current: Less than 2mA
3. Sensor angle: Less than 15 degrees
4. Detection distance: 2cm-450cm
5. High precision: Up to 3MM
6. terminal: XH2.54-4pin
7. Weight: 18g
8. Working Temperature: -20-80°C