

# Gravity: URM09 Analog Ultrasonic Sensor

SEN0307

## Product Overview

07/20/2022

For the most up-to-date information, visit [www.mouser.com](http://www.mouser.com) or the supplier's website.

## Description

DFRobot URM09 Analog Ultrasonic Sensor is a device that measures the distance of an object in its path using sound waves. This URM09 device is designed for fast-ranging and obstacle avoidance applications with a measuring frequency of up to 30Hz. The URM09 ultrasonic sensor is equipped with built-in temperature compensation and analog output.

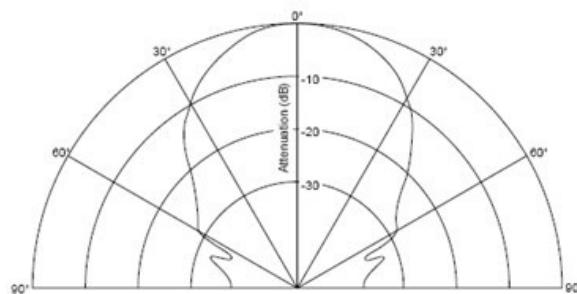


The URM09 ultrasonic sensor works with an operating temperature range of -10°C to 70°C and a 3.3V to 5V DC power supply. This URM09 ultrasonic sensor can provide accurate distance measurement within 500cm and is compatible with Arduino, Raspberry Pi, or other main-control boards with 3.3V or 5V logic levels.

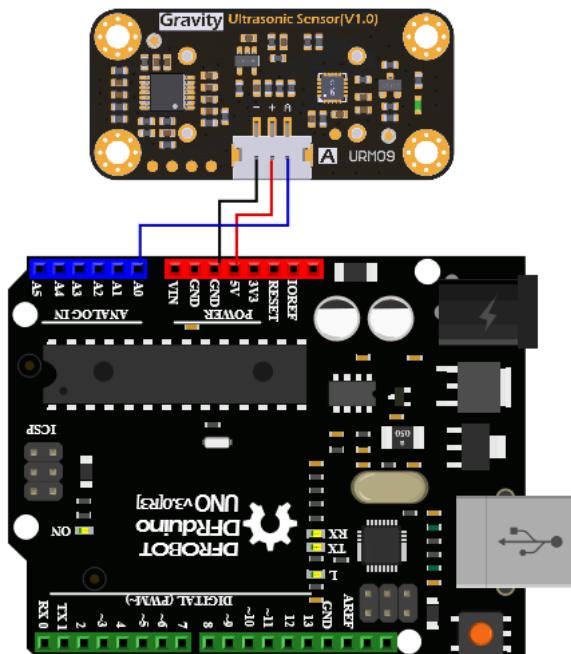
## Features

- 3.3V to 5.5V DC power supply
- 20mA operating current
- -10°C to 70°C operating temperature range
- 2cm to 500cm measurement range
- 1cm resolution
- 1% accuracy
- 30Hz maximum frequency
- 47mm x 22mm dimensions

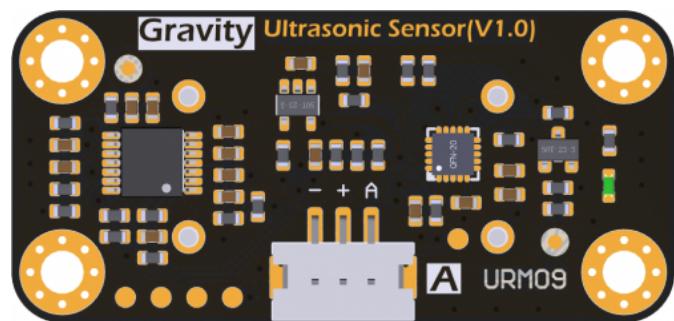
## Measuring Angle



## Board Overview and Connection



- Fig 1. Connection diagram



- Fig 2. Board overview

## Mouser Part Number

[View Part](#)

To learn more, visit <https://www.mouser.com/new/dfrobot/dfrobot-urm09-ultrasonic-sensor/>