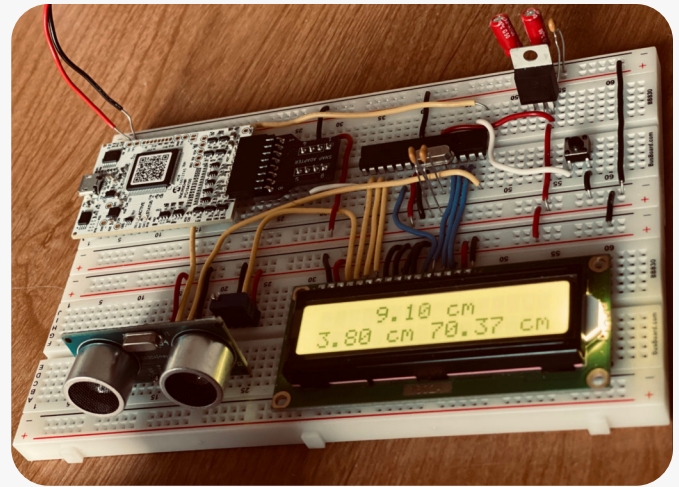


Ultrasonic Range Finder

The most powerful we've ever made



The Ultrasonic Range Finger is used for measuring the distance between it and any object safely and quickly. This unit consists of LCD display, HC-SR04 Sensor, Push-button, and Processing circuit. The Sensor transmits an 8 cycle burst of ultrasound at 40 kHz and waits for the sound wave to reflect back to it's receiver. Distance is measured as soon as the device is powered and will be displayed on the LCD.



Operating Instructions

see figure 1 for reference

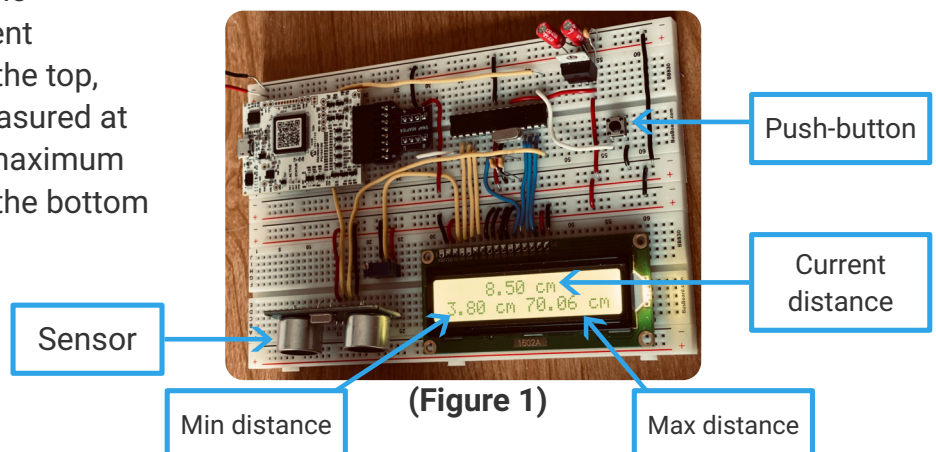
1. Plug in the 12 V adapter into a wall outlet
2. Press the push-button, to reset the minimum and maximum distance measured
3. Aim the sensor at the target object, the distance will be shown on the LCD display in the following format: Current distance measured at the top, Minimum distance measured at the bottom right, and maximum distance measured at the bottom right.



Warning

To avoid any harm or damage to the device, keep it away from any liquids.

To obtain accurate measurements, make sure the sensor is directly aimed at the object and no other obstacle interfering in between



(Figure 1)

To reset the max and min distance measured press the button.

NOTE: The LCD will display NaN for the max and min distances, if the button is pressed at a distance out of the sensors range.

Specifications & Characteristics

Distance Range	2.00 cm to 70.0 cm	Operating Voltage	1.8 - 5.5 Volts
Accuracy	Has an accuracy of ± 1 cm of the distance measured	Operating Temperature	-40 °C to 85 °C
Response time	130 mSec	Weight	115 grams
Measuring angle	15 degree	Dimensions	11 x 16 x 1cm

Sensor's Operation Diagram

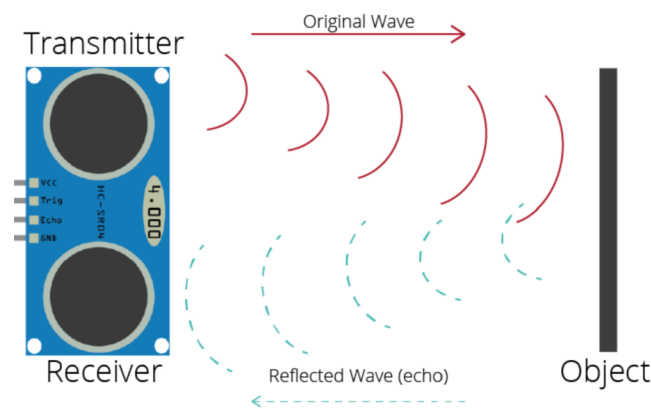


Figure 2: Diagram showing how the sensor operates.