

Ultrasonic Distance Meter

Your Name

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Introduction

The Ultrasonic Distance Meter is a device that measures the distance to an object using ultrasonic waves. It works by emitting a sound wave and measuring the time it takes for the wave to return after reflecting off an object.

Working Principle

- ▶ An ultrasonic sensor emits a pulse of sound.
- ▶ The pulse travels until it hits an object and reflects back.
- ▶ The sensor calculates the distance based on the time taken for the pulse to return.

Components

- ▶ Ultrasonic Sensor (e.g., HC-SR04)
- ▶ Microcontroller (e.g., Arduino)
- ▶ LCD Display
- ▶ Power Supply

Block Diagram

Code Snippet

Output

Conclusion

The Ultrasonic Distance Meter is an efficient and simple device for measuring distances. The project showcases the integration of hardware and software for practical applications.

Questions?

Thank you!
Any questions?