

# ULTRASONIC DISTANCE MEASUREMENT TRAINER



## Introduction

- This trainer is used to perform all the experiments of ULTRASONIC DISTANCE MEASUREMENT TRAINER.
- It is useful for experimentation as well as project work .
- This trainer is designed in fashion, all sections can be operate individually.
- This is useful for and B.Tech And M.Tech. For research / Project work we give Re-programmable facility & PC interface with Lab view Easy to perform, This trainer is very useful for ECE, EEE, EE, ME and I&C Eng streams.

## Technical Specification

- Very short to long-range detection and Ranging
- Detects objects from 0-inches to 254-inches (6.45-meters)
- Ranging sonar range information from 6-inches out to 254 -inches with 1-inch resolution
- Continuously variable gain for beam control and side lobe suppression
- Object detection includes zero range objects
- 2.5V to 5.5V supply with 2mA typical current draw
- Readings can occur up to every 50mS, (20-Hz rate)
- Designed for protected indoor environments
- Sensor operates at 42KHz
- High output square wave sensor drive (double Vcc)
- Onboard controlled LCD(16x2) Display
- On board Test points to study the signals during operation of sensor
- Faults study using hardware switches, during operation.
- 15 inches scale for distance measurement Based On PIC microcontroller