

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 .

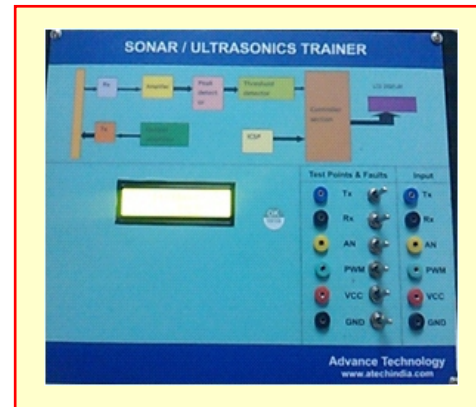
This trainer is designed in fashion, all sections can be operate individually.

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.

Features

- 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



EXPERIMENTS

- To study Fundamental Of Ultrasonic sensor measurement .
- To study and detect obstacle at particular distance.
- To study and measure the distance of Obstacle at varying distance.



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