

ACCELEROMETER TRAINER

Introduction

This trainer is used to perform all the experiments of **ACCELEROMETER 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

- Acceleration along X, Y, Z axis.
- High sensitivity of 800mV/g @1.5g
- User selectable acceleration range of $\pm 1.5g$ or $\pm 6g$
- Onboard 3.3V low drop voltage regulator
- input range of 3.6V to 6V.
- Supply voltage (Vdd): 2.2V to 3.6V @
- 400 μ A (accelerometer supply range)
- Sleep mode current: 10 μ A
- Sensitivity: 1.5g : 800 mV/g 6g : 206 mV/ g
- Static acceleration : XOUT,YOUT,ZOUT
- @ -1g: 0.85V @ 0g: 1.65V @ +1g: 2.45
- Bandwidth: X, Y axis: 400Hz, Z axis: 300Hz
- Output Impedance : 32K Ω
- Based On PIC Microcontroller .
- Display 16X2 LCD .

Experiments

- Study of accelerometer Concept
- Measurement accelerometer of movement using Sensor
- Measurement of angle using accelerometer sensor
- To control the movement of cursor using accelerometer
- To control ROBOT using accelerometer.



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