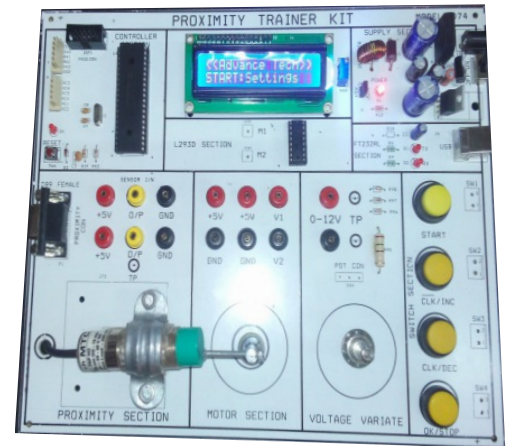


Proximity Trainer Development System



Introduction

- This trainer is used to perform all the experiments of PROXIMITY SENSOR .
- 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 Engg streams.

Technical Specification

- Platform to learn metal detecting facility using proximity metal detector
- 12 volt DC motor mechanism to produce rpm
- Rpm count display using LCD(16X2)
- Switches control to control direction and motor speed
- Based On 8051 microcontroller
- Test points for conceptual study during different hardware operations
- Variac to give variable supply to motor
- Each section is having Test Point
- 2 push button to increase and decrease the speed of motor
- 2 push To change direction of motor
- Start and stop button to make operation smooth
- Sensor operates voltage +5 to +40 volt.
- Inductive Sensor metal detection range 3mm to 4mm.

Experiments

- To learn fundamental of Proximity sensor .
- To control speed of dc gear motor
- To control direction of dc gear motor
- To measure the RPM of motor using proximity sensor.
- To learn how to make Application for proximity sensor based control system.



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