PC Based Data Acquisition System

Introduction

- This trainer is used to perform all the experiments of PC BASED DATA ACQUISITION SYSTEM.
- 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 usefulfor ECE, EEE, EE, ME and I&C Eng streams.

Technical Specification

- 20 Digital I/O (Up to 50 Hz per I/O)
- Having 8 channel 12 -Bit Analog Inputs,
- 2 Analog Outputs ,
- On board 8 digital output (LED's) &
- On board 8 digital input(DIP) Switch.
- On board Relay ,Buzzer Section .
- Temp Sensors (LM35 , Pt100)
- Proximity switches,
- LDR (LM 324 & LDR) & IR Sensors
- On Board signal conditioning For above sensor
- USB Bus with data acquisition system
- Complete Software Control & it supports Labview software
- codes for the above mentioned sensors.
- switch)on board buzzer for indication
- Facility for e xternal signal interface , with Potentiometer .
- It supports Software or Hardware Timed Acquisition

Experiments

- To Learn the Hardware OF data logger and interfacing with Labview.
- To check the Temperature using the LM35 Module.
- To measure the intensity of light using LDR module
- To transmit data using IR transmitter module
- To find the output of the proximity switch on the computer screen.
- To control the LEDs using labview front panel.
- To control the relay and buzzer using labview front panel window.
- To get the input from the Digital input section of the PC based transducer board.
- Many more application Based On data Acquisitions based On Analog and DigitalSignal.