

PC BASED INDUSTRIAL PARAMETERS STORAGE SYSTEM

AIM:

Design and Development of PC based industrial parameters storage system.

PURPOSE:

In industries SCADA and PLCs plays major role and make manual work so easy. Using these systems we can easily monitor few kinds of parameters of any type of industry. These are having some sensors and monitoring software. Software located at centralized place where monitoring team handles all data. But SCADA and PLCs are expensive for medium and small scale companies. To solve this issue we have solution with microcontrollers and sensors. We can implement this kind of system with Arduino microcontroller and it act as like SCADA and PLC. The proposed solution title is PC based industrial parameters storage system using Arduino. We can call it as PC based industrial Data logger also.

DESCRIPTION:

Arduino connected to PC or laptop through USB-TTL cable. LM35/34 connected to Arduino analog pin. Smoke sensor (mq2) and Fire sensor connected to Arduino digital pins.

Academic Projects

WORKING:

C# application running in PC to display and store sensors data. Arduino reads sensors data and display on LCD. Also application as feature that can store sensors data in a text file. It can display sensors data on graphical user interface and also stores in local file. Sensors data stored in file with respective to Date and time. This functionality works as like mini database. This file can be sharable within the local area network.

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TECHNICAL SPECIFICATIONS:

HARDWARE:

Microcontrollers : Arduino Uno

Crystal : 16 MHz

LCD : 16X2 LCD

Communication cable : USB to TTL

Temperature Sensor : LM35/34

Smoke Sensor : MQ2

Fire Sensor : IR receiver type

Power Source : 12VDC adaptor

SOFTWARE:

Arduino IDE

Proteus based circuit diagram

APPLICATIONS:

Industrial Automation

PLC applications

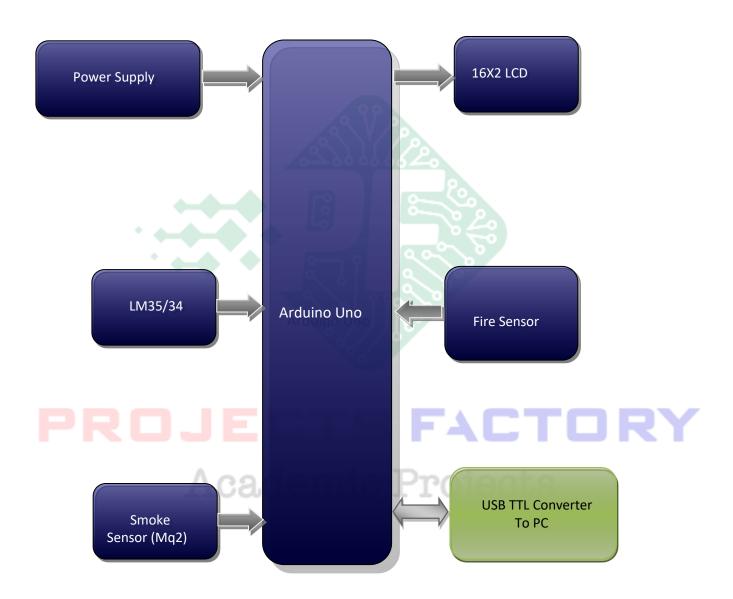
➤ Industrial data logger

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BLOCK DIAGRAM:

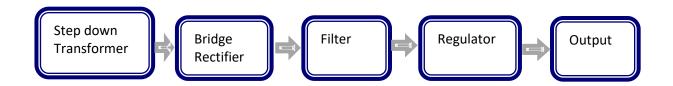


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POWER SUPPLY BLOCKDIAGRAM:



INTERFACES COVERD:

- We have covered Arduino and PC interface
- Sensors like lm35/34, Smoke (Mq2) and Fire sensors

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