PIC Industrial and Domestic Timer (Relay Controller)

ajay_bhargav, Tue Jan 04 2011, 02:38 am

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Hi Friends,

I hope everyone had a rocking New year   I was suppose to give you all a New year gift uploading a new project, but unfortunately it got delayed 'coz I was busy with my *personal life*

One of our site member, Jeswanth kumar (**jeswanthmg**) has submitted his project to me just before the new year eve. It took a little time for me to review this project.

Project is titled "Industrial and Domestic Timer" is a time controller or a Time controlled relay project in simple words. Though it seems simple to say but the features of this project adds a great learning curve in both hardware and software part.

This project is buit around Microchip PIC Microcontroller PIC16F877A. Hardware includes DS1307 for time keeping, 16x2 LCD for display, 5 Push buttons and 8 relays. The alarm settings are stored in internal EEPROM of PIC microcontroller. The code for this project is written in C for Hi-Tech C Compiler.

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Some Highlighting features are:

> » 32 alarm settings for 8 relays including on off but the number of alarms can easily be increased upto 46.

> » 16x2 LCD and 5 push buttons for user interface.

> » Microchip PIC16F877A as controller and DS1307 to manage time.

> » PIC16F877A's internal eeprom to store alarm settings.

> » PIC's code is written in Hi-Tech PIC C compiler.

Working video of project:

Incase you face any kind of problem in this project feel free to post your doubts in **forum**.

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