

2015). Rapid wear and tear of the mechanical parts also occurs due to continuous up and down movement which will lead to increased frequent maintenance.

2. BLOCK DIAGRAM

The power supply unit consists of step-down transformer, rectifier (full wave bridge) filter capacitor and voltage regulator. It converts high ac input to a ripple free regulated d.c. power which powers the relay, logic gate and alarm units, in carrying out their various functions. In the design, we are converting 220V (a. c.) at 50Hz to 12V d.c. regulated power.

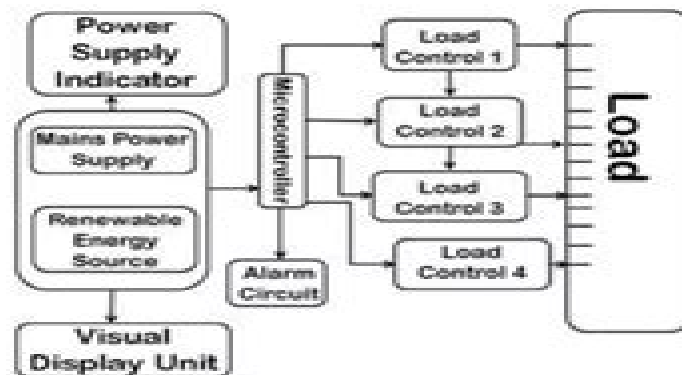


Fig. 2.1: Block Diagram of Proposed System

After careful calculation and selection of components, the circuit diagram was drawn in Proteus. It was then assembled and implemented block-by-block on a breadboard, tested and found to perform satisfactorily. Before transferring the separate blocks/units to a Vero board for careful soldering and testing microcontroller unit circuit is the heart universal programmer, respectively. This is where the program for circuit diagram is as shown in Fig. 2.1 the control part of the paper is written and burned using assembly language and a The 8052 microcontroller hardware circuit is usually a very flexible one and all the surrounding components are given a recommended range of values, by the datasheet but the actual values can be chosen by the programmer.

3. METHODOLOGY

In this paper is aimed at designing and constructing an automatic change over with step loader. Under normal operation, the circuit is programmed to change over power supply from the generator to the mains supply and back to the generator (the generator is sequentially loaded) when

there is no supply from the mains. Series of programs were written in assembly language and were embedded into the microcontroller. As regards the power supply unit, transformer TR1 steps down the voltage to 12V, then bridge rectifier BR1 rectifies it to pulsating dc, and then capacitor C1 does the filtering and inputs it to the voltage regulator LM 7805 to give a fixed output of purer dc power which power the microcontroller U3 and display unit at 5V; or LM7812 to power the relays at 12V.

There are two alarms, one sounds when there is utility power restoration (in the beginning of the circuit when you turn it ON, when power goes out and when power comes back) and the other alarm is called an error alarm sounds when the system deviates from its usual or defined pattern e.g. when the generator refuses to start or stop. The alarm circuit comprises audio (buzzer) BUZ1 and visual (LED) D3 indicators driven by a 555 timer U6 connected in astable mode. In this mode it has no stable state. The 555 timer produces a square wave (pulsating or intermittent signal) and its output continually switches state between high and low without any intervention from the user. As stated already, when there is the presence of power from the mains supply, the NOT gate D5A sends a low signal to the microcontroller U3 which will in turn send a low signal to the 555 timer (U6) connected in an astable mode, which produces a signal of alternating pulses with a 50% duty cycle, which triggers the buzzer to output a constant pulsating alarm and flashes the LED D3 on and off.

The input voltage from the backup battery gives us a maximum of 8V and the capacitor could make the voltage going into the regulator to get up to 15V. This value is typical for the 7805 regulator, as the maximum required voltage input is about 25V. The 7805 voltage regulator is a three terminal IC used for voltage regulation. It is factory trimmed to provide a fixed output of 5 volts at 1A load current and has an on chip circuitry to prevent damage in the event of over heat or excessive load current. The chip simply shuts down, rather than burning out.

The Power supply unit is responsible for supplying the system's power requirements. It makes power available to the other units of the hardware system. The Power supply unit delivers 5V dc regulated supply at 1A each.

The paper basically supplies continuous power to a load in automated mode through one of the four sources of supply that are: solar, mains, thermal, and wind when any one of them is unavailable. Four switches are used for four respective sources. These are connected to a microcontroller of 8051 families that provides input signals to it. Whenever a switch is pressed, it shows the absence of that particular source. A relay driver receives microcontroller generated an output signal and switches that particular relay to provide continuous power supply. A lamp was used as a load for demonstration purpose which draws power from main. When mains fails to supply power, automatically next available source is used say thermal. If thermal fails then the

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N Colangelo



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