Abstract

To protect electric and electronic device against voltage drop, overshoot, and fluctuation of the main supply, a microcontroller-based circuit is designed. The circuit will keep monitoring the power supply and ensure the main voltage connected to the board feeding the controlled devices connected if it measures within a required voltage range (RVR). If the voltage falls below or above the RVR then the main supply would be disconnected from the feeding board. The circuit then will keep monitoring the voltage and reconnect it to the feeding board once its amplitude falls back stable in the required voltage range. The design was simulated successfully using Proteus software.

References

- Paul Scherz
Index Terms

Computer Science  Circuits And System

Keywords

Microcontroller  Proteus  Monitoring  Protection  Recovery