

PASSWORD BASED CIRCUIT BREAKER

ABSTRACT

This project provides a password based circuit breaker system using 4X3 Keypad. Quite a lot of fatal accidents happen with line men due to electric shocks. It is a result of miscoordination or miscommunication between line men and substations. The project aims to solve this issue by making use of 4X3 Keypad password. The password based Circuit Breaker is a system with high protection to control electrical loads. This system uses a 4X3 keypad paired with Atmega328p microcontroller locally to connect to the internet. It is also equipped with an LCD display which shows the state of each load connected to the system, either On or Off. The additional speed is added with the use of quick electrical circuit breaking solution using the transistors, instead of relays which are comparatively slower as they mechanically break the circuit. This system is indispensable when industrial safety comes to play, as a use of such circuit breaking systems removes any chance of common accidents, such as electrical shocks.

BLOCK DIAGRAM

