

Password Based Circuit Breaker

Password Based Circuit Breaker is design to protect a circuit from damage which is caused by over load or short circuit. Many fatal electrical accidents are happen due to miscommunication between the maintenance staff & the electric substation staff. To avoid accidents, the project is designed in which only authorized person can operate it with the help of a password. The password based circuit breaker is a system that access only specified password to control the circuit breaker by authorized person only. Here, there is also a provision of changing the password. The system is fully controlled by the 8 bit ATmega328 microcontroller. The entered password is compared with the password store in the ROM of the microcontroller. If the entered password is correct, then only the line can be turn ON/OFF. Activation or deactivation of the circuit breaker is indicated by a lamp (ON/OFF). This project is designed to operate the system by only authorized person to avoid such accidents. A matrix keypad is used to enter the password and relay driver IC is used to switch ON / OFF the loads through relays. If the authorized person is not at place so using GSM facility he can break the circuit through this facility as well.

