

Real Time Power Line Fault Monitoring System

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Abstract: *The project focuses on the development of an efficient system for detecting and indicating faults in electrical networks, particularly in underground cable systems where fault location is difficult and time-consuming. The system uses a microcontroller-based embedded design along with appropriate sensing elements to continuously monitor the condition of the network. When a fault occurs, the system identifies the abnormal condition and indicates the presence of the fault along with its approximate location. Relays are used to isolate the faulty section, ensuring safety and preventing further damage to the system. The output is displayed using indicators such as LCD for easy understanding*

Keywords: Fault Detection, Underground Cable, Microcontroller, Relay, Sensors, Electrical Network, Automation, Real-time Monitoring, Power Distribution, Safety System

