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(57) Abstract :
 ABSTRACT: This work deals with new method of single-phase fault detection and also Auto switching based on Arduino displayed over the fault. Our detection system deals with the current flowing through cables. Each cable will have its maximum current capacity. When short circuit fault occurs, current suddenly increases. Also, in case of open circuit, current will be zero. Current transformers are used to detect current level, this output current will be given to I to V converter unit so as to make in readable in terms of voltage. This voltage is then fed to ADC pin of Arduino, which convert it into digital and take appropriate action if any fault condition (SC or OC) occurs. This fault is displayed on LCD display & on LEDs. Relay driver and relay circuit is used to switch single phase load of city electricity distribution system on other ok phase to provide end user an uninterrupted power supply. Fault clearing switch is provided for manually tell the system about fault clearing. Then only load will be switched to regular phase. The information sends to authority peoples with help of GSM module.

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