# IoT Based Pole Anti Theft System

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**Abstract:** *The IoT-Based Pole Anti-Theft System aims to combat the increasing prevalence of electricity theft, which poses significant financial losses and infrastructural challenges for utility companies. This innovative system employs the PZEM004T energy meter and the ESP8266 Wi-Fi module to monitor power consumption across two utility poles. By continuously measuring electricity usage, the system can detect any abnormal spikes indicative of theft. When unauthorized power consumption is detected, real-time alerts are triggered. These alerts are communicated to users via the Thingspeak platform for monitoring and analysis. Additionally, a user-friendly interface developed using Kodular enables remote monitoring and control, allowing users to receive notifications on their mobile devices. The integration of IoT technologies enhances the efficiency and effectiveness of electricity monitoring, facilitating prompt responses to theft incidents. This proactive approach not only aids in reducing energy losses but also ensures better resource management and improved operational efficiency for utility providers. Ultimately, the IoT-Based Pole Anti-Theft System serves as a vital tool in safeguarding electrical infrastructure and promoting energy conservation, providing a scalable solution to a growing problem in the power sector.*

**Keywords:** Anti-Theft System