

ABSTRAC

The instability or fluctuations in the electrical voltage can pose a threat, especially to current and voltage, as well as damage to electronic components. Especially in generators where there is no indicator to know the current and voltage produced when the generator is used, a device that should be an emergency can actually cause new problems. From these problems it becomes a reference in making a generator control and monitoring system using an ESP32 microcontroller based on the Blynk Internet. The system knows that it is in a stable state and monitors through the reading parameters so that the microcontroller is ESP32. The data obtained from the readings of several sensors namely PZEM004T to measure the current and voltage used are sent via ESP32, then processed on Blynk IoT and displayed on the website. The results obtained from the design of this tool are to find out the current and voltage produced by the generator is stable or not and provide data on the operation of the generator and provide convenience in the delivery as well as providing data on all activities of the generator system as a whole via the internet.

Keywords: PZEM004T, Internet of Things, Stability Monitoring