

## **Energy meter**

Energy meter is a device used to calculate the frequency, current and voltage of the load connected to this device. The load can be controlled from anywhere using the user-friendly application developed using App Inventor tool. Serial Communication is done in between STM and ESP32 is established using Arduino IDE software and then the thinkspeak cloud is used for transferring the data to the cloud and then the data is then displayed over the user-friendly application created using app inventor software. The STM32 is an 32-bit microcontrollers based Arm Cortex processor designed to offer new degrees of freedom. It is used for high performance computing, real-time capabilities, digital signal processing, low-power / low-voltage operation, and connectivity maintaining full integration and easy development.