PROTOTYPE OF WASTED KWH PREDICTION WITH MICROCONTROLLER BASED BY PLN USING WIFI

ABSTRACT

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Disorders often occur in the electricity distribution system. Causing disruption of distribution systems can not distribute electrical energy (KWH) to customers. For safety it is usually mounted on the equipment in the distribution channel. Losses due to the disruption has not fully calculated. Loss calculation only by comparing KWH selling and buying. In this final calculation of losses is calculated as current does not flow in the network multiplied by the long disturbance.

Based on this tool was made to read the value of current and voltage values later when an interruption occurs. Final value of current and voltage, input it into the program in Code Vision AVR to determine the total losses for the three-phase interruption. When the interruption is finished or already exists then the current input counter will stop and the total losses will be obtained. This process is also shown to the Human Machine Interface (HMI) that is interactive so can be seen as well as the status of the network can be monitored also the value of the old loss and disruption in realtime.

With this tool should help PLN to determine the amount of damages for disruption and act quickly to deal with the disorder.

Keyword : Disorders, Sensor, Current, Voltage, Human Machine Interface.
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