DESIGN COUNTER POWER SUPPLY FOR BOARDING HOUSE WHICH CONNECTED WITH INTRANET

ABSTRACT

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Power consumption in the boarding room still can not be monitored so bill payments based solely on the use of electrical power electrical appliances in the room. This is very detrimental to boarding house owners, when the use of electrical equipment is continuously, but if the equipment is rarely used and still be exposed to the same cost, then this will also harm the roomer. Because that's required equipment that can monitor the amount of power used in a boarding room using a microcontroller.

Since the main purpose of the existence of this tool is for monitoring power usage, then to facilitate the monitoring process used two displays, the LCD for boarders, and a PC using Visual Basic program for owners of boarding houses, where each display is connected by a microcontroller ATmega16, while the sensor is used allegro ACS712 current sensor and voltage sensor made of step-down transformer.

After the process of making and testing, power usage monitoring tools has been in accordance with the targets and limits specified problem.

Keywords: mikrokontroler, current sensor
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