Abstract

In operating air conditioning equipment, often the user selects the temperature setting at the lowest temperature setting, for example at a temperature setting of 16°C to 18°C. This can result in a waste of electrical energy, where the lower the temperature setting chosen, the longer the compressor works to reach room temperature according to the temperature setting chosen. Another thing that can cause the waste of electrical energy from the operation of air conditioning equipment is in the case of the user's ignorance of the amount of consumption of electrical energy consumed by the air conditioning equipment.

This study aims to create a system that can operate in 2 operating modes, namely energy saving operation mode by limiting the temperature regulation of air conditioning equipment to a range of 24°C to 27°C and normal operating modes, and can monitor electrical energy consumption and the price paid in rupiah from the operation of the equipment.

From the results of the tests carried out, it was found that the system that was made could limit
the temperature regulation of the air conditioning equipment in operation settings 24oC to 27oC in energy saving operation mode, so as to minimize the occurrence of waste of electrical energy from the air conditioning equipment.

References

5. Peraturan Mentri Energi dan Sumber Daya Mineral RI. No. 13 2012, tentang penghematan pemakaian tenaga listrik
Searchword=lcd 16x2 diakses 8 juni 2018)

Index Terms

Computer Science

Circuits and Systems
Keywords