Abstract

Increased consumption of electrical energy consumption of air conditioning equipment can be caused because the air filter was dirty. This is because the operation of the compressor continuously to reach the appropriate temperature set point. To overcome this, it is necessary to add a system that can detect the impurities of air conditioning air filters to prevent the squandering of electricity. The system created would turn off air conditioning work and provide information to the user through the alarm and the display on the LCD screen that the air conditioning needs to be treated. In the manufacture of this system, created an algorithm built into the microcontroller which serves to operate the working of the whole system. From the results of the testing algorithm detection system air filter Air Conditioning conducted, found that when the air filter equipment Air Conditioning has indicated dirty, then the system will disable the working Air Conditioning and activate alarms as information to the user that the equipment needs to be treated. Besides, it is also the system will inform the user via an LCD display that Air Conditioning needs to be done in connection with the treatment has indicated dirty air filter.
References

expansion air conditioning system” Energi and Buildings 40. 1660–1665, 2008,
5. Didik Wiyono “Panduan praktis mikrokontroler keluarga AVR menggunakan DT-Combo
Performance Sistem” Naskah Lengkap The National Conference on Hotel Engineering – 2010,
Denpasar 22 Juli 2010.
7. Tony Hartono Bagio “Algoritma dan Pemograman” Fakultas Ilmu Komputer, Universitas
8. User Manual “Intelligent Schematic Input System” Labcenter Electronics, November
2002.
refrigerant flow air-conditioning sistem under cooling conditions” Energi and Buildings 39.
212–220, 200

Index Terms

Computer Science Algorithms

Keywords

Algorithm, Air Conditioning, Air Filter, Energy Saving.