

# PIC BASED TEMPERATURE CONTROLLER

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## ABSTRACT

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As we enter the new era of globalization, technology has been keeping itself updated constantly while the quality lifestyles too improved with time. Nevertheless, some developments from unethical groups of people have caused destructions to Mother Nature causing extreme temperatures in our environment.

With the increase in the world temperature, the air conditioner is no longer a luxury but a necessity. However, keeping the air conditioner operated at all times will definitely cost a bomb in the electricity bill. With the PIC based temperature controller, one can feel comfortable in a room at a desired temperature without having to worry about increasingly high electricity bills as it only turns the air conditioner on when necessary (I.e. according to the desired temperature input from the user). As such, he or she would not face the problem of feeling too cold nor freezing in a room when the air conditioner is turned on after a long period of time.

On top of that, the PIC based temperature controller is not only used to control the switching activity of the air conditioner but can also be used to control external equipment such as a heater. This function can be applied during the monsoon season when it rains all day. Therefore, it definitely saves us the energy of walking around and turning the external equipments on and off and keeping one feel comfortable at the same time.

This report will provide further detailed information on the construction and working principles of the PIC based temperature controller.