Project Abstract

Title: Room Ambient Control System

Description

Maintain the ambient conditions like Temperature, light intensity, humidity etc. in a given room to the user selectable value.

Requirements

Keypad (to enter the ambient value) + display + sensor + basics

Peripheral to be used

ADC, ports

Why do we need room ambient control system?

When feeling too hot we will be waning to cool down. When feeling cold we will need to warm up. Our bodies are amazing, self-regulating mechanisms that can constantly adjust to keep their temperature within a whisker of 37°C (98.6°F). But the rest of the world isn't quite so helpful. If we want our room to keep their temperature more or less constant we need some mechanism that help us to control and adjust the temperature.

A room control system is a closed control loop it constantly assesses the current room temperature and controls a heater and/or air conditioner to increase or decrease the temperature according to user-defined setting(s).

Group members

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