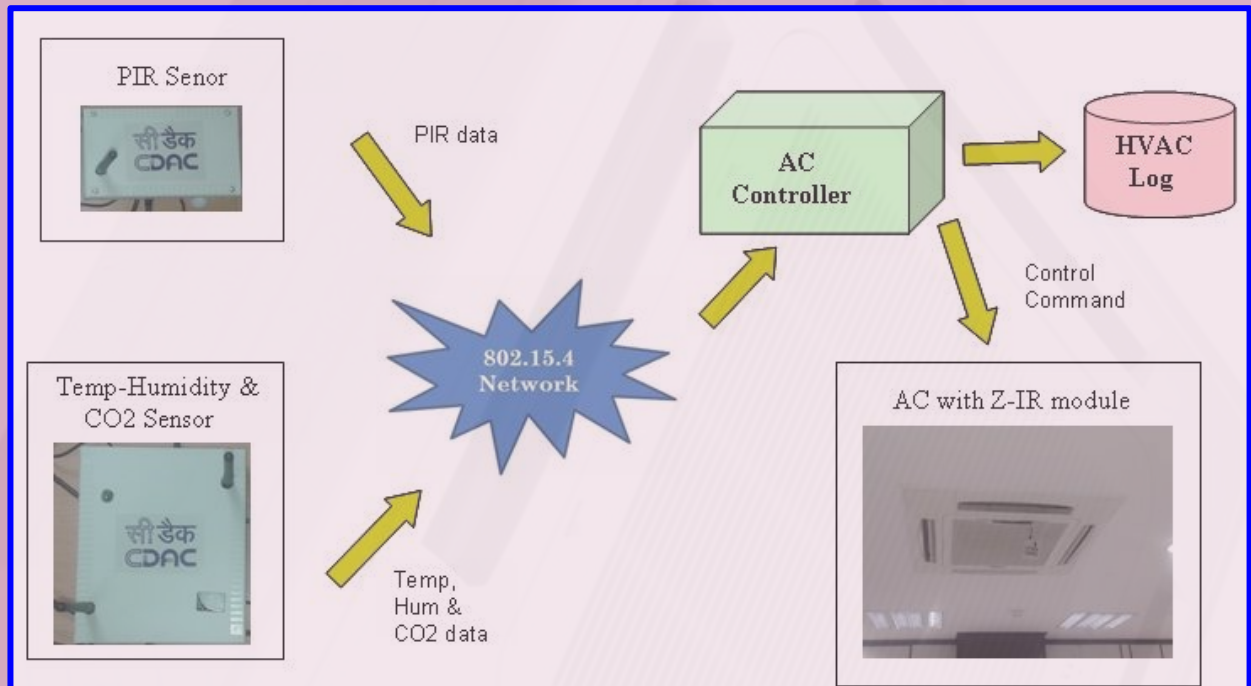


# Model Predictive, Rule Based Controller for Room Air Conditioner (Cassette type AC)

A linearized mathematical model of the room is derived using basic heat transfer equations. The heat transfer within the room is modelled using equivalent RC network models. The model is used to predict the temperature of the room in the next instant.



## Features

- Occupancy based AC Control Solution
- Rule based, Model predictive control of room temperature
- AC Control based on occupant's thermal comfort

## Potential Users

- AC Manufacturers
- Smart building solution providers

## Benefits to Users

- Maximised occupant's thermal comfort
- Minimise energy consumption

Centre for Development of Advanced Computing

A Scientific Society of the Ministry of Communications and Information Technology, Govt. of India

Tidel Park, 8th Floor, Block D North & South,

4, Rajiv Gandhi Salai, Taramani, Chennai 600113

Telephone: +91-44-2254-2227 Email: ubicomp-chn@cdac.in