

Fpga Implementation of Intelligent Climate Control for Greenhouse

MDhananjay E. Upasani
H.O.D. E&Tc &IT
SGREFS, COEM,
Ahmednagar

Sandip B. Shrote
E & Tc Deptt. SGREFS,
COEM,
Ahmednagar

Vrushali P. Wani
Elex Deptt SGREFS, COEM
Ahmednagar

ABSTRACT

India is an agriculture-oriented country. For the quality and productivity improvement of greenhouse crops, it is necessary to measure and control several interacting physical variables. These tasks can only be accomplished by 'control systems with built in software'. Erecting greenhouse is expensive. Automation machinery is imported in India hence it is expensive. Many farmers cannot adopt the greenhouse technology due to its high cost. The paper highlights about the approach to control the environment in Greenhouse. The greenhouse controller senses the changes in the temperatures (Dry temperature, Wet temperature) through input sensors and processes to take control action. Facilities are provided to the user so that settings can be changed by keyboard and messages can be displayed on the LCD display. Relay outputs for FAN-PAD, FOGGER, LAMP, VENTS can be activated in Normal or Cyclic or Scheduled operating mode. Thus effort is taken to reduce the automation product cost using FPGA.

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