

ABSTRACT

APPLIANCE REGULATOR OF LAMP AND AUTOMATIC REVERSER AT BOX HATCH OF EGG BASED MICROCONTROLLER ATMEGA 16 EQUIPED BY UNINTERRUPTIBLE POWER SUPPLY .

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Making of this final project aim to to get an peripheral in the form of appliance regulator of lamp and reverser of automatic egg at box hatch of egg with UPS digitally, which its use much more practical than which still is conventional. this peripheral is controlled by a IC microcontroller ATmega 16 connective by temperature censored of LM35 as read of temperature, time counter inversion of egg and displayed on the LCD viewer and indicator of LED.

This appliance is made in a few step that is, (1)Identifying Requirement, (2)Analysis Requirement, (3)Hardware Scheme, (4)Scheme of Software, (5)Making and (6)Examination of Appliance. Principal which used in scheme of this appliance is principle of output of lamplight heat accepted by censor of LM35 and processed by microcontroller ATmega 16 to is later then used as gloomy and bold regulator of lamp, besides also from principle arrangement of digital signal which used as timing for the mechanic of to inversion of egg automatically.

After done attempt and analyzed it can be seen that the hardware have succeeded to be made to use minimum system of microcontroller ATmega 16 with output of censor of LM35, timing and of switch power utilize to give input at network of dimmer, motor mechanic of DC to turn around egg rack 180° clockwise and also is contrary of clock wise and of UPS, after test-drive by system of hardware have supported according to made appliance. Software have succeeded to be made to use programming of language of C compiled use Codevision AVR. As a whole programming of this software have earned to work according to in programming of arrangement input and output of censor LM35 for bold and gloomy condition of lamp, temperature scanning in box, arrangement of inversion timing and appearance at LCD. Performance of the "Appliance regulator of automatic reverser and lamp at box hatch of egg based on microcontroller ATmega 16 equipped by UPS", as a whole have prospected and as according to function which have been specified, that is process scanning / read of time and temperature, arranging to blaze lamp, doing automatic inversion and system linger extinct electric moment although only just few minutes

Key words: box hatch of egg, sensor LM35, ATmega 16, DC motors, UPS, dimmer, LCD