

ABSTRACT

Along with the development of modern times. Technological advances are also increasingly rapid, many manufacturing products are found, everything is done easily and practically. The product was made with the aim of helping human work. But not all manufacturing products are automated, some products still work manually, for that we are required to be able to innovate by changing the manual process with a more efficient method that is using automatic products. One of the tools is an automatic egg incubator. At present equipment that generally uses remote monitoring and operation systems. This system usually uses a microcontroller or PLC as a control. In an effort to facilitate human work, it was tried to make a design for setting the DC motor rotation direction on the egg incubator. The DC motor used in an egg incubator to drive the egg rack is a power window motor. This DC power window motor uses a power supply of 12 VDC. This design uses Schneider PLC as its main control. By using RTC as a reference when setting the DC motor rotation direction forward. Schneider PLC input is 24 VDC. The design of this tool can later be applied to an automatic egg incubator using PLC Schneider as its control and other component components needed in the design of the arrangement of the rotary direction. In the monitoring system uses a human machine interface as a monitoring tool.

Keywords: *Human Machine Interface (HMI), Motor DC Power Window, Programmable Logic Controller (PLC) Schneider, Real Time Clock.*