

Abstract

Water Birth is one of the supporting medical equipment used for the birth with water media. Childbirth is not an easy process, the mother will feel the pain. For most women, childbirth is a scary thing because of tremendous pain. To overcome this pain, medical science has developed a variety of ways ranging from the use of painkillers to cesarean section. Poses childbirth aims to reduce the pain of childbirth. In this way, the mothers who give birth will feel more relaxed and more calm. "Currently, many of the birth process that failed in the middle of the street because his mother can not stand the pain so decided to cesarean section, the solution, one of which is Waterbirth,". In the process of waterbirth, the mother usually will go into the water, when the cervix is the opening phase of the 6 to complete.

Water drainage system is also arranged so that water remains in a sterile condition. In addition, the delivery room will be arranged so that the mother feel relaxed. "Atmosphere created serileks possible, there is the aroma therapy, candle light, so the mother feel relaxed and less painful.

This appliance is equipped with temperature control and air circulation. Working principle of control of temperature is the temperature in the pool penjagaan birth process using sensors LM35 as sensor temperature with temperature control from 34 ° C to 37 ° C. In addition there is also a working heater as heating water, and water pumps used for water circulation process, where all components are controlled by the microcontroller IC.

Based on a comparison between temperature measurements LM35 with the temperature at the temperature display on the LCD obtained an error rate (%Error) of 0.225%.

Key words: Water Birth, microcontroller AT89s51, LM35 Sensor, Timer, Circulation, Air Sterilization