

ABSTRACT

Gauges weight, height and temperature in infants is one type of tool used elektronik to find out how much weight, height and body temperature in infants who had just been born. This tool is only for the measurement so it will work when the button is pressed on and then put the baby in the box then on the display will appear when the heavy load and draw a linear potentiometer and skin sensors placed on the baby's body on display will also show the length and the temperature at the time baby . This tool is usually placed in neonates.

Often the measurement of height, and weight and body temperature is still done manually or with equipment separate measurements.

Therefore, the authors tried to design it into a medical device that can be done all at once. Gauges weight, height and body temperature in infants consists of a series for the heavy chain to high, and circuit temperature sensors, ICL7107 as the controlling circuit on the display. This tool has three measurements of the measurement of weight, height and temperature. Where the use of sensors for measuring weight loadcell, the high use of sensors linear potentiometer. As for the temperature using the LM 35 and using a digital system with ICL7107 as the controlling circuit on the display.

Based on the results of height measurements with an error (error%) of 0%. And than to temperature in infants with an error (error%) of 0.13%. It can be concluded that this device can run well and can detect how much height his body and temperature in infants at that time.

Keywords: Sensor linear potentiometer, LM35 and ICL 7107