ABSTRACT

Gauge length, weight and head circumference in infants is a tool that serves to determine elektromedik length, weight and head circumference of infants and to monitor the growth of infants. Measuring tool made earlier by Yulia Eka Nurjannah and Himma Shofiana 2007 not equipped with the baby's head circumference measurements. While the growth observations with the above parameters is very important in case of symptoms deviation of growth in babies can be given early action so as not to worsen the condition of the baby. The main basis in assessing the physical growth of children is the assessment using a standardized tool (standard).

The author wants to create a module that is used to perform measurements in infants with parameters of body weight, body length, and head circumference. In its design, this module using ATMEGA 8535 as the main controller. The sensor body length using a variable resistor with a range of 30-80 cm and head circumference sensor also uses a variable resistor with a range of 20-50 cm. Views on this module using the seven segment.

The process of data collection is done by measuring 5 times. Based on the calculation results obtained error in the measurement of 0.72% body length and head circumference at 0.357%.

Keywords: Variable Resistor, Long Board, Head Circumference