

ABSTRACT

There are many indicators that need to be monitored after the baby has been born. One of those is their weight and height. Nowadays tools/instruments that used to measure the baby's weight and height is in different tools/instruments, then the result will be told manually.

This situation makes it difficult and wasteful energy of health workers that should be minimized. Along with the development of technology, to facilitate health workers to measure the weight and height of the baby, making this device equipped with Ultrasonic Sensor, Load cell, HX711 Amplifier modul, LCD and IIC/I2C modul set by Microcontroller. Microcontroller is a computer system that all or most of its elements are packaged in one IC chip, so it is often called single chip microcomputer.

From the results of the weight and height measurement done, the success rate of the final project device is 99.69% for measuring baby's weight and 99.68% for measuring baby's height. The tool created can be used well because it has a high success rate.

Keywords: Weight and Height Measuring Instruments, Ultrasonic, Load cell, Microcontroller