

ABSTRACT

Suction Pump Thoracic is a tool medical use in the medical world for do action suck fluid in the thorax cavity , then liquid that has been smoked that is will accommodated in tube vacuum . Suction Pump Thoracic this model using a DC voltage motor that is controlled by a motor driver with way gives Pulse width modulation that originates from Minimum System circuit. In Use tool this , compiler use 4 modes election pressure that is -5, -10, -15 and -20 kPa conducted with way pressing push button Up and Down for p emilih an pressure . After pressure selected , value pressure that is will appears on the 2 x 16 LCD display.

Research this use kind of experimental pre- with design One group post test design research . After done measurement and calculation obtained results value the pressure is read by the MPXV4115V sensor ie The error can be the greatest at pressure maximum with the setting of -10 obtained an average error value of 2 , 7 8 % , in the -5 setting obtained error value of 2 , 70% , in the -20 setting is obtained 1.59 % error value , and the smallest error in the -15 setting is obtained error value 1 , 0 9%.

For minimal pressure error results the biggest error value with setting - 1 0 obtained error value 0 . 33 % , in setting -1 5 obtained an average error of 0 , 20 % , in the -5 setting obtained error value 0 , 19 % , and the smallest error in the setting - 20 obtained error value 0 , 1 8 %.

Kata kunci : Suction Pump Thoracic, sensor MPX4115V, Atmega 328