

ABSTRACT

Suction Pump is a medical device that functions to suck up liquids that are not needed on the human body, such as blood or mucus. Then the liquid is sucked and will be accommodated in a container caused by the suction system on the driving motor and vacuum tube. The author makes a Dual Mode Suction Pump tool aimed at combining previous research namely the thoracic mode using pressure selection of -5, -10, -15, and -20 kPa and the normal mode using pressure selection of -30, -40, and -50 kPa. Done by pressing the Push button Up and Down for pressure selection. After the pressure is selected, the pressure value will appear on the 2 x 16 LCD display.

This study uses a pre-experimental type with one group post test design research design. The pressure value will be read by the MPXV4115V sensor. Based on the measurement data, the sensor output is obtained at -5 setting at 4.21V, -10 setting at 4.08V, setting -15 at 3.84V, setting -20 at 3.50V, setting -30 at 2.92V, setting -40 at 2.75V, setting -50 at 2.57V. In this case the measurement of suction pump can be done with DPM (Digital Pressure Meter).

Keywords : *Suction Pump Thoracic, sensor MPX4115V, Atmega 328.*