

ABSTRACT

The current blood pressure *monitoring* system is increasingly being developed for medical purposes, in measuring blood pressure cuff will be pumped at 180 mmhg on the arm then the sensor will detect pressure which will then show the numbers of systole and diastole. To design the tool, hardware is needed such as MPX5050DP sensor, Solenoid Valve 0520D, 5v dual channel relay, Mitsumi Air Pump R-14 1604, DC-DC Converter, HC-05 Bluetooth Module, Cuff and Arduino Uno R3. Whereas to display the measurement results using a program built through Visual Studio Enterprise 2017 software and Microsoft Access Database.

Keywords: MPX5050DP, Visual Studio