

ABSTRACT

Doppler is a diagnostic tool used to detect the fetal heartbeat. Doppler mostly contained in the Hospital only able to issue a fetal heartbeat. Does not rule out the possibility Doctor or midwife who checked the fetal heartbeat and trouble to hear the fetal heartbeat count. Due to the fetal heart rate was extremely influential on the health condition of the fetus in the womb. Therefore we need an aircraft display on the doppler.

Which is used to detect the baby's heartbeat 10-11 weeks of age, then the baby's heartbeat in the form generated by the oscillator frequency is then transmitted by the transmitter to the media measurement transducers and measurement results received back by the receiver transducer, and the signal recorded by reactivier go into pre-amp done for the strengthening of reinforced later by the end of the Power Amp and speaker and enter the fetal heartbeat sound will be heard and then processed by mikrokontroler that may appear on the LCD.

Based on the analysis and testing of the accuracy of the data pengukuran number of fetal heartbeats per minute it can be concluded that the percentage of error in Doppler Ultrasound With Display Number of Fetal Heart Rate per minute is <5%.

Keywords: Doppler, Ultrasound, Transducer.