ABSTRACT

Recently technology development is influence on the medical equipment in which that technology was applied on the medical equipment as well. The meaning is to make easier the hospital party to give the medical service to the community so that to satisfy the community with the service given. Of that background, as the electrical-medic technician candidate demanded to more innovative in development and planning a medical equipment to support the health service activities. Pregnancy test device constitutes one example of medical equipment to detect of positive or negative of the pregnancy. Pregnancy detection is highly necessary to know positive or negative of pregnancy from a woman. To know, whether or not a woman is pregnant, it was necessary a device. Detection of pregnancy is through urine, if there is HCG (Human Chorionic Gonadotropin) hormone in the urine thus that woman is pregnant.

Planning of pregnancy test device at the electrical-medical campus is only limited on the examination result display, that is positive or negative displayed on the LCD monitor (Emma Rullin, KTI 2005).

Refer to the above problem, thus the writer is trying to make a AT 89s51 micro-controller-based pregnancy test device that is able to examine 4 patients all at once and save the patient data that typed through keyboard. And the result directly printout through dot matrix as the documentation material for doctor and patient. Pregnant test device has deviation mean (%) of positive urine with positive standard solution amount 6% while for negative urine with negative standard solution is deviation mean (%) amount 59%.