

SUMMARY

RANCANG BANGUN SISTEM PENGENDALIAN pH PADA KONSENTRASI ASAM BASA DENGAN TAMPILAN LCD

DESIGN AND CONSTRUCTION OF pH CONTROL
SYSTEM FOR ACID BASA CONCENTRATION USING THE
LCD DISPLAY

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Subject : kontrol pengendalian
Subject Alt : Automatic control
Keyword : Sensor pH ; larutan HCL dan NaOH ; LCD ; ADC 0804

Description :

Dalam Tugas Akhir ini telah dirancang sebuah sistem pengendalian pH dengan tampilan LCD menggunakan Mikrokontroler tipe 8535. Alat ini mampu mengendalikan kadar pH pada dua jenis larutan asam dan basa, dalam hal ini larutan HCL dan NaOH. Pengujian sensor dapat dilakukan dengan menggunakan sensor pH (CuO₂). Dari hasil pengujian ADC 0804 diperoleh tingkat kesalahan sebesar 2.5 %, Jika volume HCL lebih besar dari daripada larutan NaOH maka nilai pHnya kecil tetapi Jika Volume NaOH lebih besar daripada larutan HCL maka nilai pHnya besar.

Description Alt:

In this final task, we built a pH control system with LCD display which used an AT MEGA microcontroller type 8535. This device can controls pH level for two kind of dissolved (acid and basa), for this case. We have used HCL and NaOH. The sensor test can be performed by using a pH sensor (CuO₂). According from ADC 0804 proceeding test, we got the result that error rate that device 25% and a conclusion then the pH s value is going smailer, but if the volume of NaOH is bigger than HCL, then the pH s value is going bigger.

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Thank You,

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