

ABSTRACT

Personal Computer (PC) represent a peripheral expanding application to be able to in so many human life area. PC have some excess in data processing. Expected expanding of PC can water down work of human being in the field of measurement. This matter is addressed to take a short cut measurement time and water down in process data.

Target of this final project is system of amperemeter using PC as appearance and processor of data, that is with system mendesain pengkondisi of source, to deliver information sinyal to PC. And peripheral to accept delivered information signal of source.

This Final project realize peripheral of amperemeter consist of resistance of shunt as constrictor of current which enter. Rectifier to be unidirectional of input which in the form of current of AC to be as according to characteristic of ADC, lasing to strengthen input to be got by input signal staying in ADC range. To arrange process change of data from parallel to used by serial of AT89C51 mikrokontroller, RS232 modem as interface of hardware to PC and of software amperemeter to present result of measurement in the form of numeric.