Experiment 6

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- APM ? A DC 0804 interfacing with 8051
microcon troller.

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ADCO808 chip with 8 analog champles another useful chip is the ADC 0808 10809 from National semiconductor. While the ADC 0804 has only one analog input, this chip has 8 of them. The ADC 0808 drip allows us to monitor up to 8 different analog inputs an using only a single chip. Notice that the ADC 0808 has an 8-bit data output just like the ADC 0804. The 8 analog input channels are multiplexed and scheited according to table using three address pins. A, B and

In the ADCO808 / 0809, Vref (+) and Vref (-) set

the reference whage. If Pref (+) = GND and Vref (+)

= 5V, the step are as 5V/256 = 19.53, N. Therefore,

to get a iom V. step are we need to set Vref (+) =

2.56V and Vref (-) = GND We use A, B& (

addresses to select INO-IN7 and active AZF

to latch in the address, so is for start conversion.

So is the same as the WR pin an other ADC

Chips. F.D. is for end of conversion and DE

es for output Enable (R-EAD). The EOC and DE

are the same as the INTR & RD pin respectively.

Table shows the step size relation to the Vief

Program on spood art of rations 1/program for ADC & BIT # moude Exeg Si.h? Sbit CS = P28 47 - 569+ Yd = P215; 869+ WY = P2A6 Stit hote = 1217 Void conv (void); Void read (word) void delay consigned ent); olsosoda sur mingora o void man (1) longer police 1 P2 = 10 X FF7 10) alelay (100)). read (); Il make as high while (intr);

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Vord read (vord);

(cs = 0; // Make cs low

vd = 1; // Make RD low

delay (2);

rd = 0; // Make RD high

(s = 1; // Make cs high

Void delay Consigned int i time)

vnsigned int i, j;

for (i = 0; i < i time; i + +);

for (s = 0; i < i time; i + +);

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conclusion
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ADC 0804 Portenfaced with 8051 4590 Using C program.

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