```c
#include "lpc214x.h"


void ADCInit(void)
{
        PINSEL1 &= 0xF0FFFFFF;                          //Configure pins P0.28 and P0.29 as ADC pins
        PINSEL1 |= 0x05000000;
}


unsigned int ADC_Read(unsigned char channel)
{
        static unsigned int ad1_data;


        AD0CR = 0x00200300 | (1<<channel);    //Set Burst mode to 0, CLK_DIV, Channels, 10bit ADC/11 cycles
        AD0CR |= 1<<24;                                         //Start ADC


        while(!(AD0GDR & 0x80000000));                          //Check DONE bit
        ad1_data = (AD0GDR & 0x0000FFC0)>>6;                //Assign ADC result to ad1_data n display in mV


        return ad1_data;
}
```