

ソースコード

powerMeter.c

```
// ****
*

/*

*/

// ****
*

#define      DATA1      PORTB.F1
#define      DATA2      PORTB.F2
#define      DATA3      PORTB.F3

#define      SEGA        PORTA.F0
#define      SEGB        PORTA.F6
#define      SEGC        PORTB.F5
#define      SEGD        PORTB.F7
#define      SEGE        PORTA.F1
#define      SEGF        PORTA.F7
#define      SEGG        PORTB.F4
#define      SEGH        PORTB.F6

void  data_0()
{
    SEGA = 1;
    SEGB = 1;
    SEGC = 1;
    SEGD = 1;
    SEGE = 1;
    SEGF = 1;
    SEGG = 0;
    SEGH = 0;
}

void  data_1()
{
    SEGA = 0;
    SEGB = 1;
    SEGC = 1;
    SEGD = 0;
    SEGE = 0;
    SEGF = 0;
    SEGG = 0;
    SEGH = 0;
}
```

```
void    data_2()
{
    SEGA = 1;
    SEGB = 1;
    SEGC = 0;
    SEGD = 1;
    SEGE = 1;
    SEGF = 0;
    SEGG = 1;
    SEGH = 0;
}

void    data_3()
{
    SEGA = 1;
    SEGB = 1;
    SEGC = 1;
    SEGD = 1;
    SEGE = 0;
    SEGF = 0;
    SEGG = 1;
    SEGH = 0;
}

void    data_4()
{
    SEGA = 0;
    SEGB = 1;
    SEGC = 1;
    SEGD = 0;
    SEGE = 0;
    SEGF = 1;
    SEGG = 1;
    SEGH = 0;
}

void    data_5()
{
    SEGA = 1;
    SEGB = 0;
    SEGC = 1;
    SEGD = 1;
    SEGE = 0;
    SEGF = 1;
    SEGG = 1;
    SEGH = 0;
}

void    data_6()
{
```

```
    SEGA = 1;
    SEGB = 0;
    SEGC = 1;
    SEGD = 1;
    SEGE = 1;
    SEGF = 1;
    SEGG = 1;
    SEGH = 0;
}

void data_7()
{
    SEGA = 1;
    SEGB = 1;
    SEGC = 1;
    SEGD = 0;
    SEGE = 0;
    SEGF = 1;
    SEGG = 0;
    SEGH = 0;
}

void data_8()
{
    SEGA = 1;
    SEGB = 1;
    SEGC = 1;
    SEGD = 1;
    SEGE = 1;
    SEGF = 1;
    SEGG = 1;
    SEGH = 0;
}

void data_9()
{
    SEGA = 1;
    SEGB = 1;
    SEGC = 1;
    SEGD = 1;
    SEGE = 0;
    SEGF = 1;
    SEGG = 1;
    SEGH = 0;
}

void data_null()
{
    SEGA = 0;
    SEGB = 0;
    SEGC = 0;
```

```
    SEGD = 0;
    SEGE = 0;
    SEGF = 0;
    SEGG = 0;
    SEGH = 0;
}

void data_set(char c)
{
    switch (c) {
        case '0':
            data_0();
            break;
        case '1':
            data_1();
            break;
        case '2':
            data_2();
            break;
        case '3':
            data_3();
            break;
        case '4':
            data_4();
            break;
        case '5':
            data_5();
            break;
        case '6':
            data_6();
            break;
        case '7':
            data_7();
            break;
        case '8':
            data_8();
            break;
        case '9':
            data_9();
            break;
        default:
            data_null();
            break;
    }
}

void main()
{
    static unsigned int    ad0, ad1, cnt;
    static char    buf[10];
    //
```

```
CMCON = 0b00000111;
ANSEL = 0b00000100;
TRISA = 0b00000100;
TRISB = 0b00000000;
OSCCON = 0b01110000;
//
PORTA = 0b00000000;
PORTB = 0b00000000;
//
while (1) {
    ad0 = 0;
    for (cnt = 0; cnt < 10; cnt++) {
        ad0 += Adc_Read(2);
        Delay_us(100);
    }
    ad0 = ad0 / 10;
    IntToStr(ad0, buf);
    //
    for (cnt = 0; cnt < 100; cnt++) {
        data_set(buf[3]);
        DATA1 = 1;
        Delay_ms(1);
        DATA1 = 0;
        //
        data_set(buf[4]);
        DATA2 = 1;
        Delay_ms(1);
        DATA2 = 0;
        //
        data_set(buf[5]);
        DATA3 = 1;
        Delay_ms(1);
        DATA3 = 0;
    }
}

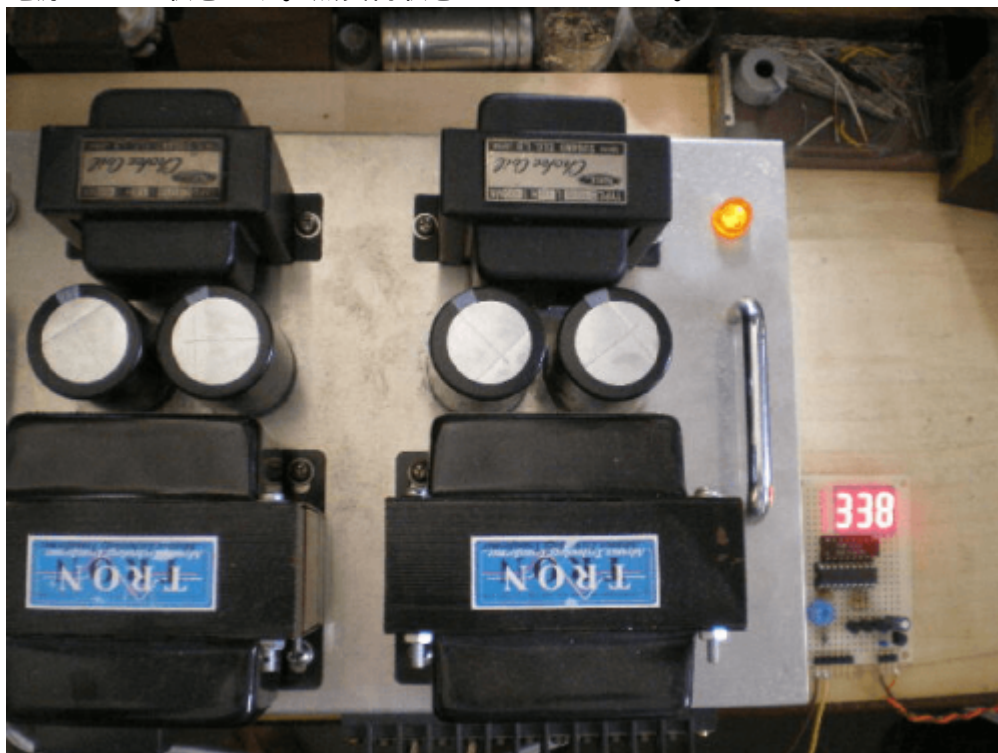
//*****
*
```

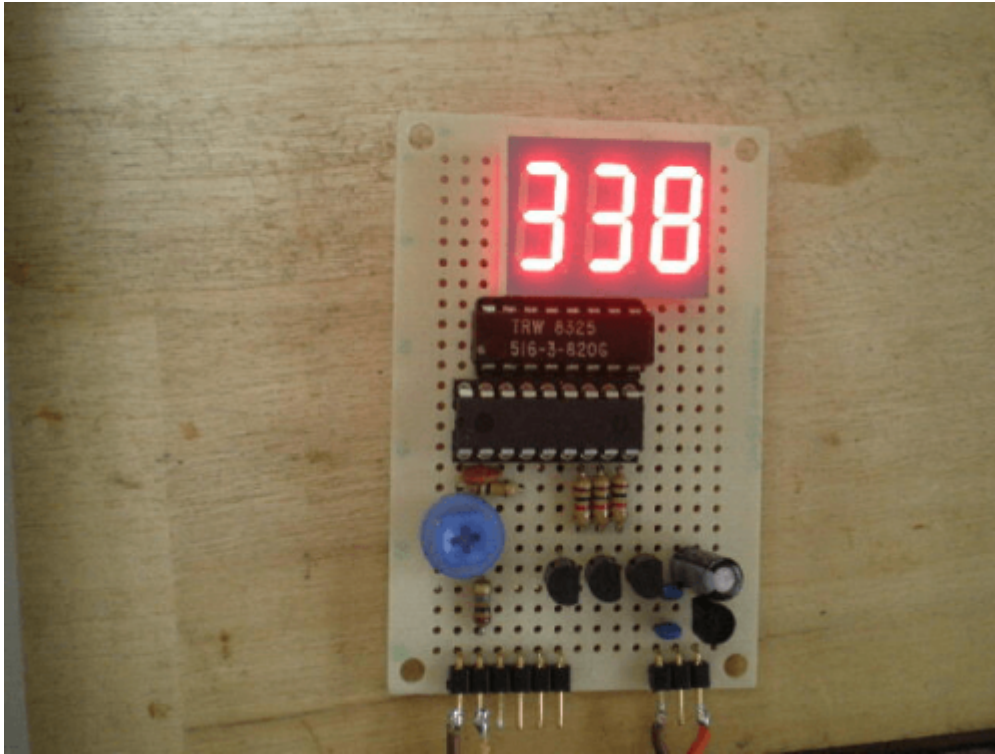
動作確認

電源がOFFの状態です0Vです。



電源がONの状態です。無負荷状態では338Vでした。





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