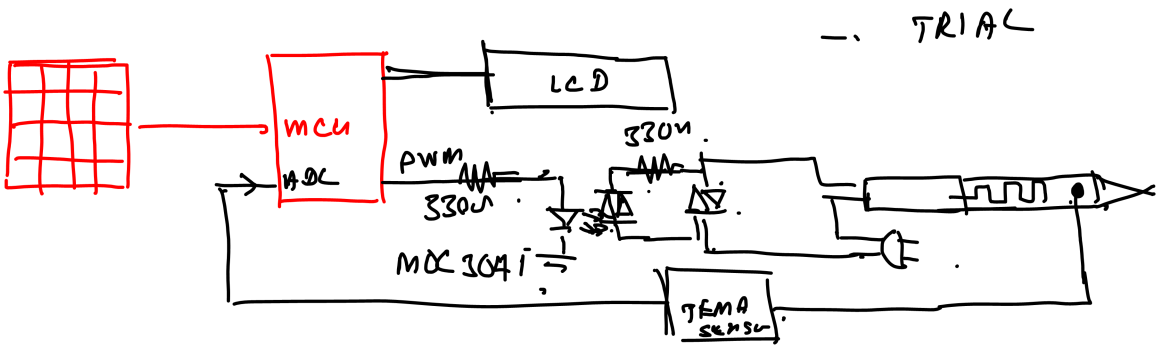
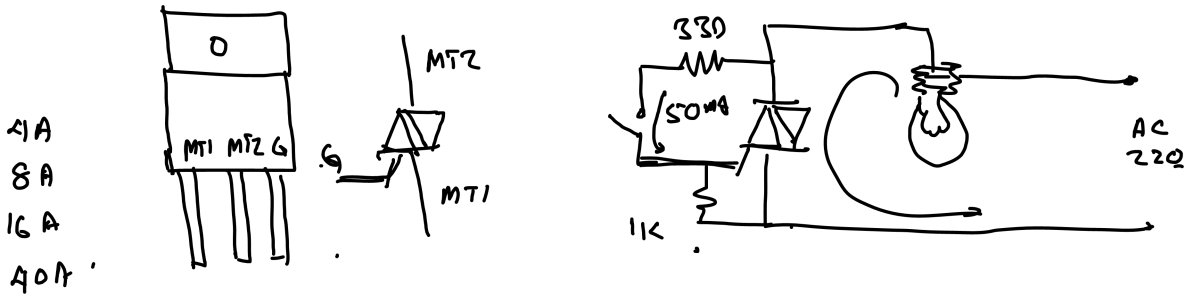
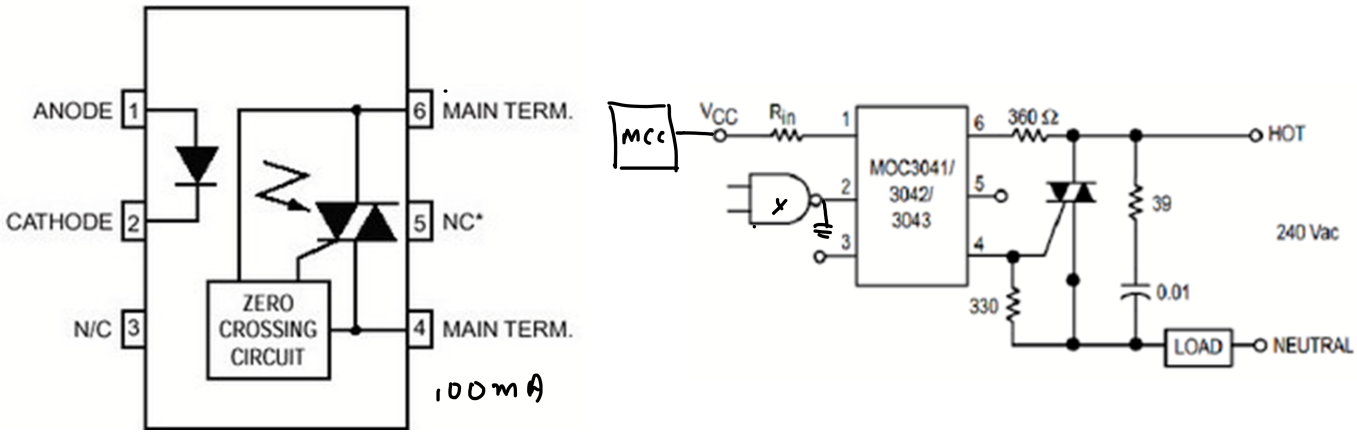
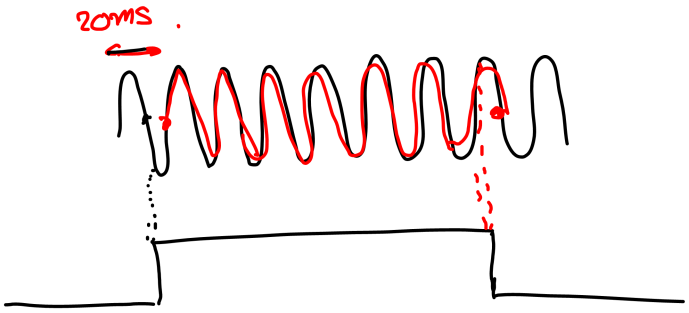
Monday, December 11, 2023
9:05:52 PM









1sec = 1000ms.

pulse = 1sec .. Zero Crossing 100.

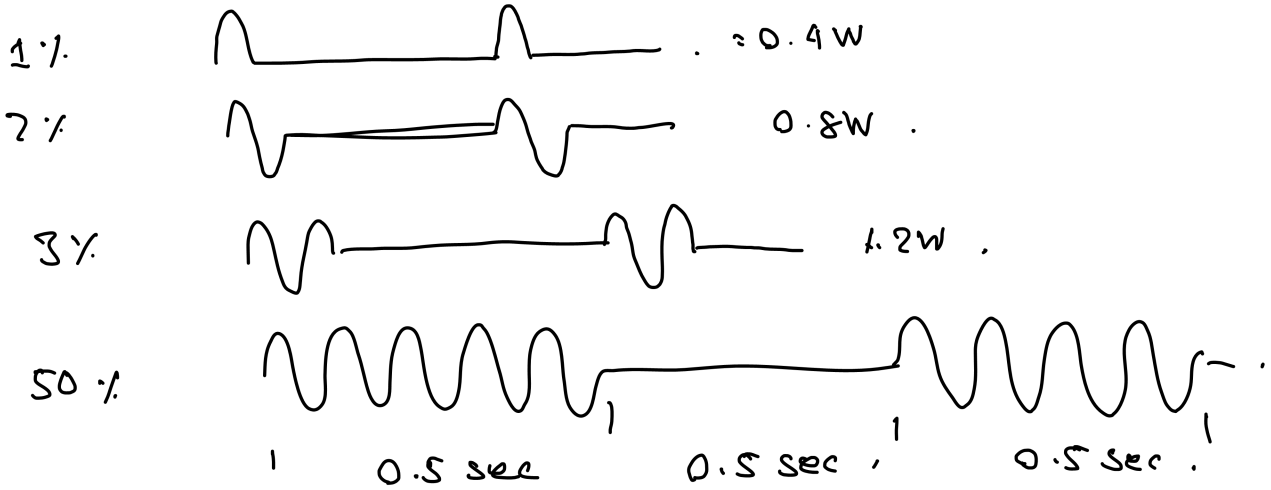
0 to 100 %.

0 : OFF

1 

40W .

$40/100 = 0.4W$



Sensor → Volt → Temperature : T_{out} .

Keypad → Temperature : T_{REF}

```
char Duty=0 .
    if (Tout < TREF).
    {
        Duty += 1.   if (Duty >, 100)  Duty = 100;
    }
    else if. (Tout <. TREF)
      if (Duty >0)
        Duty -= 1;
```

Duty → CCR1

ARR = 100 ... 1 sec .

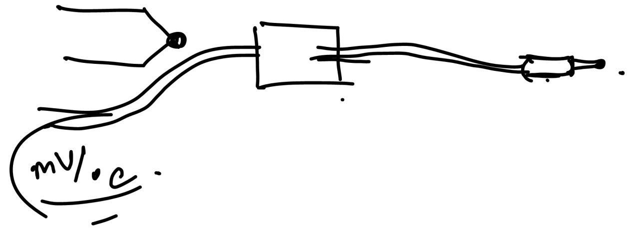
TIMER ... Presc. ?

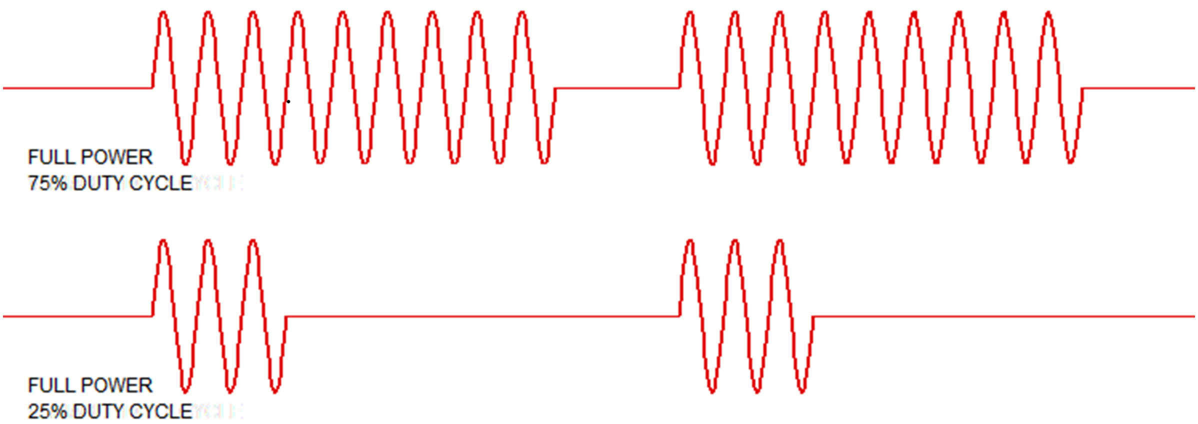
Clock 72 MHz

$T_{psc} = \frac{1}{72.} \mu s$ → [PSC] → $T_{clk} = 10ms$.

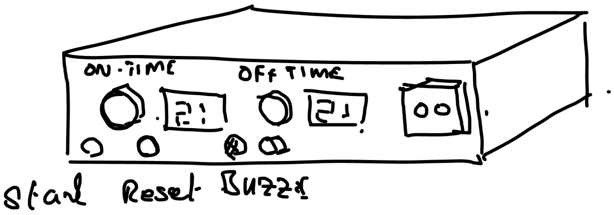
$(Psc+1)\ \frac{10ms}{72\mu s} = \frac{10 \times 10^{-3}}{72 \times 10^{-6}} = \frac{10000.}{72} \approx 139$.

Temperature Sensor -- RTD နဲ့ Thermocouple -- module.





Timer



1. ON DELAY ... start ... ချိန် T ကျော်ရင် 'ON'
2. OFF Delay start ချိန် T ကျော်ရင် OFF.
3. ON/OFF . Ton ကျ... ပြီး Toff ကျော်ရင် ထပ်. } ထပ်ခါထပ်ခါ လည်းနိုင်
   3 min — 15 min.
   0 - 1 Hr. — 0 to ..
4. Watch Dog Timer.
   start ... T_1 ကျော်ရင် Alarm ပေးမယ် - Reset နှိပ်ရင် start ပြန်မယ်.
   30
   Reset မနှိပ်ရင် ½ 'ON'
5. 〃 . Reset မနှိပ်ရင် ½ 'OFF'
6. Half-Boiled .. Timer.
7. Memory 10 ခု -- MODE, ON, OFF time.