

Kanshi Uniyal  
19EE10039.

Part 2.

\_\_/\_\_/\_\_

Ambient temp =  $16^{\circ}\text{C}$ .

Set point =  $25^{\circ}\text{C}$

.INCLUDE "M32DEF.INC"

.ORG 00

LDI R16, HIGH (RAMEND)

OUT SPH, R16

LDI R16, LOW (RAMEND)

OUT SPL, R16

LDI R16, 0X00

OUT DDRA, R16

// input

LDI R16, 0XFF

OUT DDRD, R16

// output

LDI R16, 0X87

// for scalar  
ADC using  
potting

OUT ADCSRA, R16

LDI R16, 0X61

// left adjust

OUT ADMUX, R16

READ:

NOP

SBI ADCSRA, ADSC.



POLL\_ADC:

NOP

SBI S ADCSRA, ADIF

RJMP POLL\_ADC

SBI ADCSRA, ADIF



Mansi Uniyal

19EE10039

\_\_/\_\_/\_\_

- To avoid chattering?
- Add hysteresis to stop relay chattering
  - move set point up or down based on output state.
  - else, slow loop rate so output is only updated every few seconds.