

17_termostato

;Conversione A/D PIC16F887 a 8 bit, dato contenuto in ADRESH
;allineamento a sinistra, ADFM=0
;Fosc = 4 MHz, ciclo macchina 1 µs
;dato su PORTD (display anodo comune) e PORTC (8 led catodo comune)

```
List      P=PIC16F887
Include   "p16F887.inc"
ERRORLEVEL -302
__config 0x2007, 0x20E4 ;0010 0000 1110 0100
__config 0x2008, 0x3EFF ;0011 1110 1111 1111
```

```
ORG      0x00
GOTO     BEGIN
```

```
BEGIN    BSF      STATUS, RP0
          MOVLW    0X61
          MOVWF    OSCCON
          MOVLW    B'11111111'
          MOVWF    TRISA
          MOVLW    B'00000000'
          MOVWF    TRISD
          MOVWF    TRISC
          MOVLW    B'00000000'
          MOVWF    ADCON1
          BSF      STATUS, RP1
          MOVLW    B'00000010'
          MOVWF    ANSEL
          BCF      STATUS, RP0
          BCF      STATUS, RP1
          MOVLW    B'01000101'
          MOVWF    ADCON0

          NOP
          NOP
          NOP
          NOP
```

```
RIPETI   BSF      ADCON0, 1
CONVERSIONE BTFSC   ADCON0, 1
          GOTO     CONVERSIONE
          MOVF     ADRESH, W
          MOVWF    PORTC
          SUBLW    .127
          BTFSS    STATUS, C
          GOTO     ACCENDI
          MOVLW    0XFF
          MOVWF    PORTD
          GOTO     RIPETI
```

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ACCENDI

CLRF
GOTO

PORTD
RIPETI

END