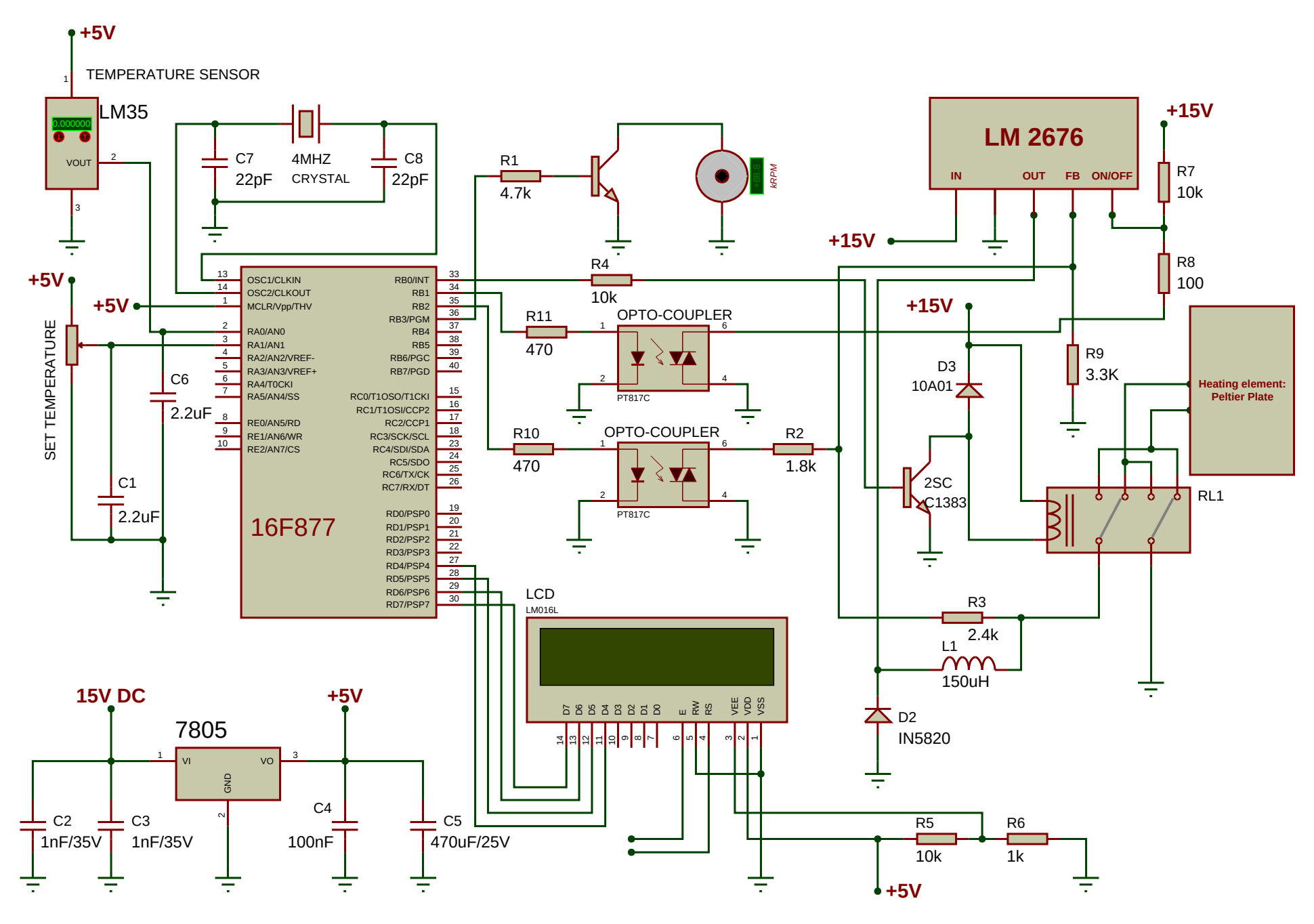
+5V
TEMPERATURE SENSOR
LM35
VOUT
C7
22pF
4MHZ
CRYSTAL
C8
22pF
R1
4.7k
kRPM
LM 2676
IN
OUT
FB
ON/OFF
+15V
R7
10k
R8
100
+15V
R4
10k
+5V
+5V
SET TEMPERATURE
C6
2.2uF
C1
2.2uF
OSC1/CLKIN
OSC2/CLKOUT
MCLR/Vpp/THV
RA0/AN0
RA1/AN1
RA2/AN2/VREF-
RA3/AN3/VREF+
RA4/T0CKI
RA5/AN4/SS
RE0/AN5/RD
RE1/AN6/WR
RE2/AN7/CS
RB0/INT
RB1
RB2
RB3/PGM
RB4
RB5
RB6/PGC
RB7/PGD
RC0/T1OSO/T1CKI
RC1/T1OSI/CCP2
RC2/CCP1
RC3/SCK/SCL
RC4/SDI/SDA
RC5/SDO
RC6/TX/CK
RC7/RX/DT
RD0/PSP0
RD1/PSP1
RD2/PSP2
RD3/PSP3
RD4/PSP4
RD5/PSP5
RD6/PSP6
RD7/PSP7
16F877
R11
470
OPTO-COUPLER
PT817C
R10
470
OPTO-COUPLER
PT817C
R2
1.8k
+15V
D3
10A01
R9
3.3K
Heating element:
Peltier Plate
2SC
C1383
RL1
R3
2.4k
L1
150uH
D2
IN5820
LCD
LM016L
D7
D6
D5
D4
D3
D2
D1
D0
E
RW
RS
VEE
VDD
VSS
15V DC
7805
VI
VO
GND
+5V
C2
1nF/35V
C3
1nF/35V
C4
100nF
C5
470uF/25V
R5
10k
R6
1k
+5V