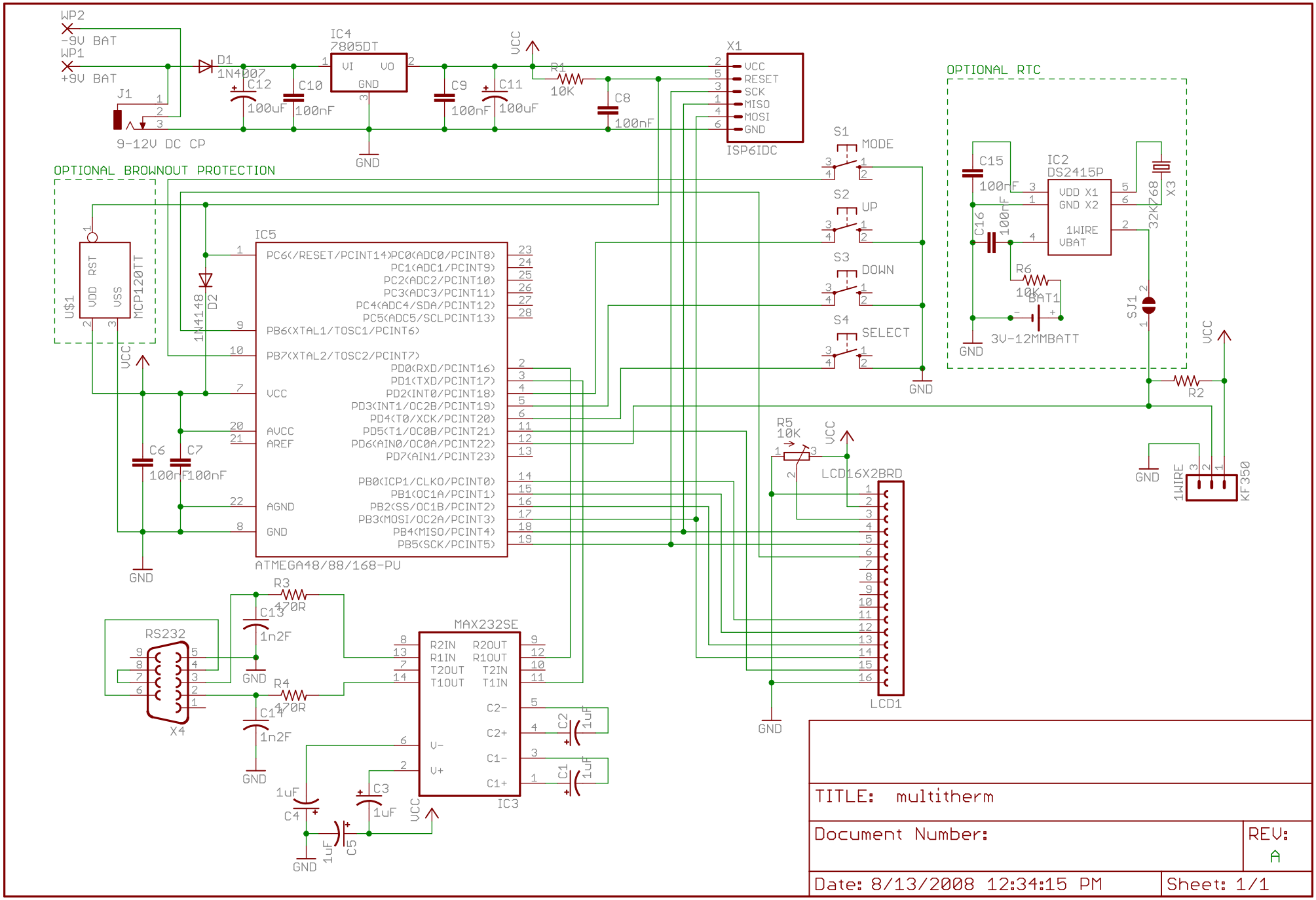
WP2
-9V BAT
WP1
+9V BAT
J1
9-12V DC CP
D1
1N4007
C12
100uF
C10
100nF
IC4
7805DT
VI
VO
GND
C9
100nF
C11
100uF
VCC
R1
10K
C8
100nF
X1
VCC
RESET
SCK
MISO
MOSI
GND
ISP6IDC
OPTIONAL BROWNOUT PROTECTION
U$1
VDD
RST
VSS
MCP120TT
D2
1N4148
IC5
PC6(/RESET/PCINT14)
PC0(ADC0/PCINT8)
PC1(ADC1/PCINT9)
PC2(ADC2/PCINT10)
PC3(ADC3/PCINT11)
PC4(ADC4/SDA/PCINT12)
PC5(ADC5/SCL/PCINT13)
PB6(XTAL1/TOSC1/PCINT6)
PB7(XTAL2/TOSC2/PCINT7)
PD0(RXD/PCINT16)
PD1(TXD/PCINT17)
PD2(INT0/PCINT18)
PD3(INT1/OC2B/PCINT19)
PD4(T0/XCK/PCINT20)
PD5(T1/OC0B/PCINT21)
PD6(AIN0/OC0A/PCINT22)
PD7(AIN1/PCINT23)
PB0(ICP1/CLKO/PCINT0)
PB1(OC1A/PCINT1)
PB2(SS/OC1B/PCINT2)
PB3(MOSI/OC2A/PCINT3)
PB4(MISO/PCINT4)
PB5(SCK/PCINT5)
VCC
AVCC
AREF
AGND
GND
ATMEGA48/88/168-PU
C6
100nF
C7
100nF
S1
MODE
S2
UP
S3
DOWN
S4
SELECT
OPTIONAL RTC
C15
100nF
C16
100nF
IC2
DS2415P
VDD X1
GND X2
1WIRE
VBAT
X3
32K768
R6
10K
BAT1
3V-12MMBATT
SJ1
R2
R5
10K
LCD16X2BRD
LCD1
1WIRE
KF350
R3
470R
C13
1n2F
R4
470R
C14
1n2F
RS232
X4
MAX232SE
R2IN
R1IN
T2OUT
T1OUT
R2OUT
R1OUT
T2IN
T1IN
C2-
C2+
V-
V+
C1-
C1+
IC3
C2
1uF
C1
1uF
C3
1uF
C4
1uF
C5
1uF
TITLE: multitherm
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