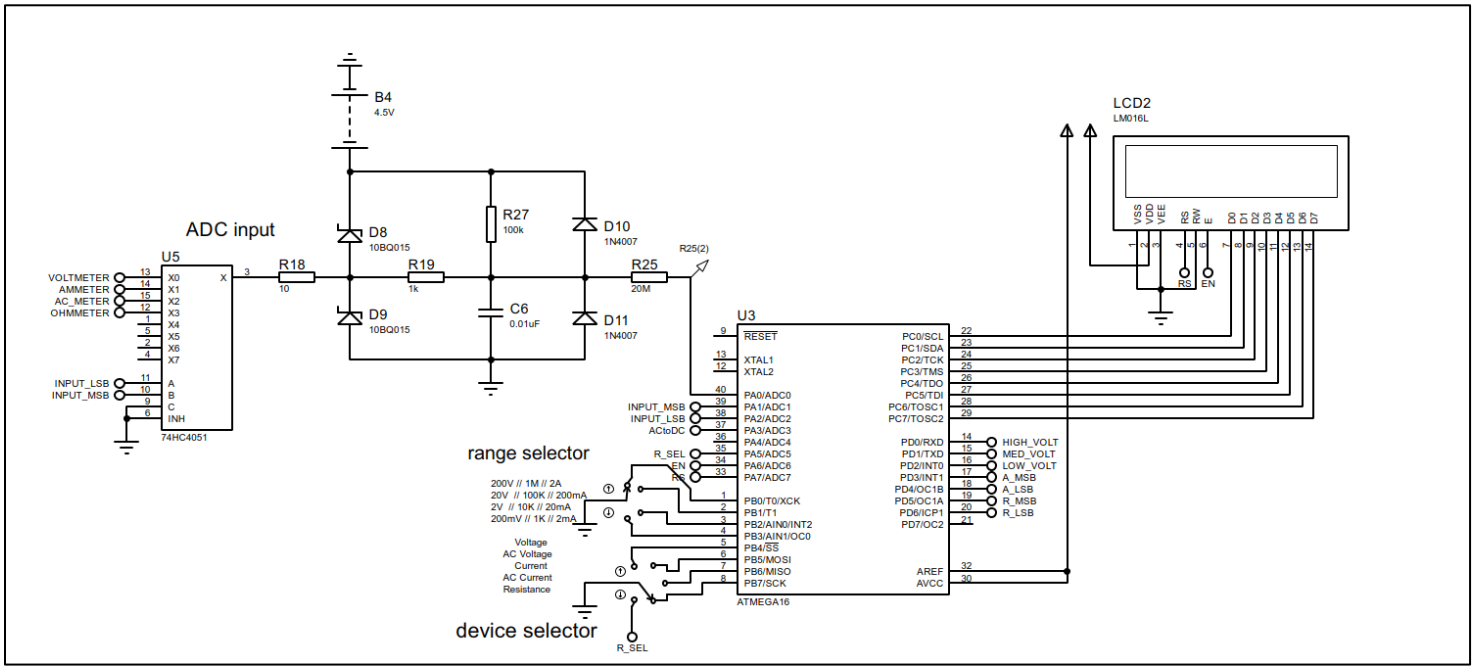
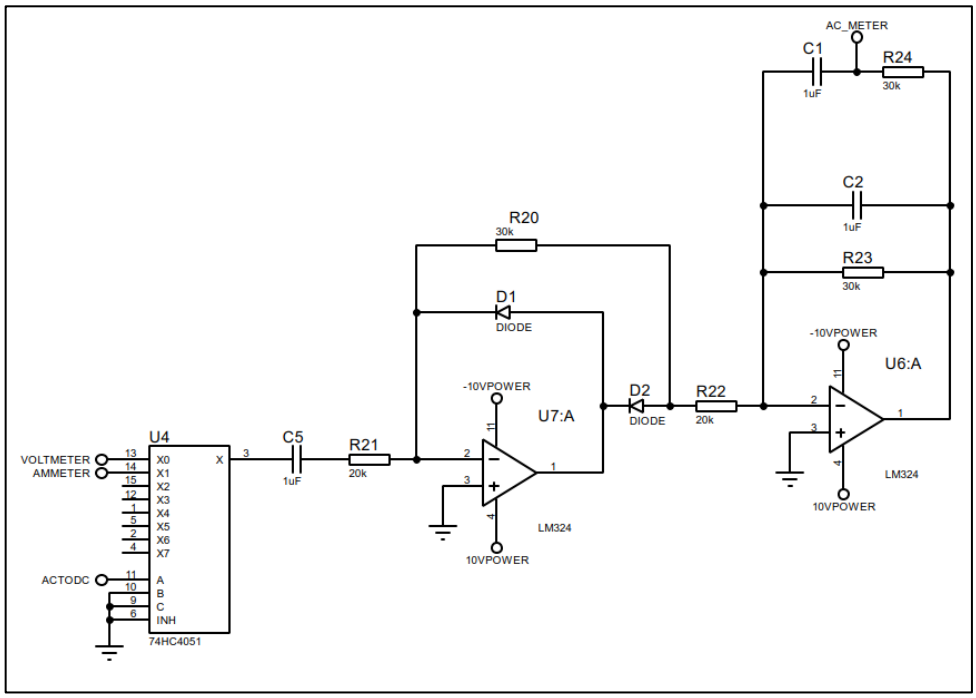
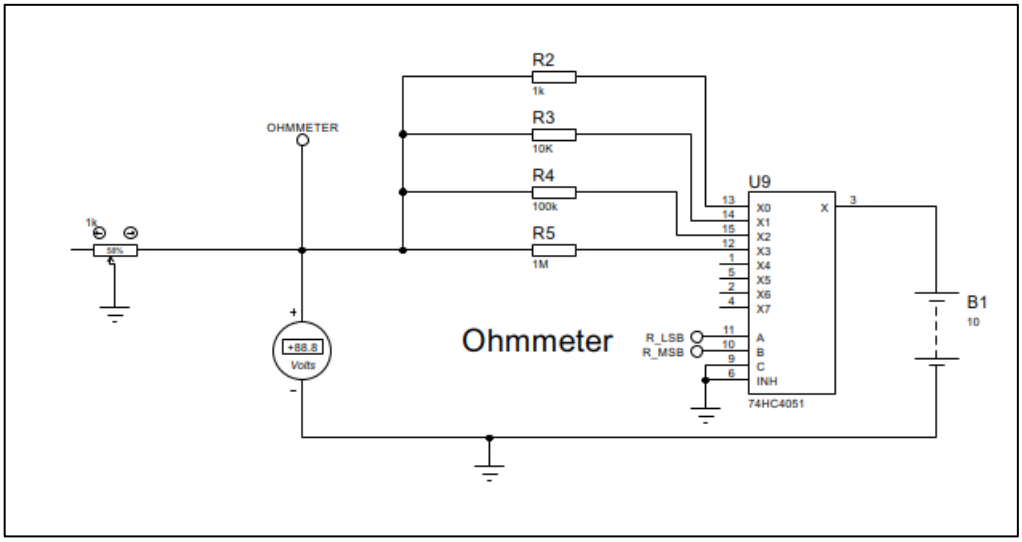

B4
4.5V
ADC input
U5
VOLTMETER
AMMETER
AC_METER
OHMMETER
INPUT_LSB
INPUT_MSB
74HC4051
R18
10
R19
1k
R27
100k
R25
20M
R25(2)
D8
10BQ015
D9
10BQ015
D10
1N4007
D11
1N4007
C6
0.01uF
U3
RESET
XTAL1
XTAL2
PA0/ADC0
PA1/ADC1
PA2/ADC2
PA3/ADC3
PA4/ADC4
PA5/ADC5
PA6/ADC6
PA7/ADC7
PB0/T0/XCK
PB1/T1
PB2/AIN0/INT2
PB3/AIN1/OC0
PB4/SS
PB5/MOSI
PB6/MISO
PB7/SCK
ATMEGA16
PC0/SCL
PC1/SDA
PC2/TCK
PC3/TMS
PC4/TDO
PC5/TDI
PC6/TOSC1
PC7/TOSC2
PD0/RXD
PD1/TXD
PD2/INT0
PD3/INT1
PD4/OC1B
PD5/OC1A
PD6/ICP1
PD7/OC2
AREF
AVCC
HIGH_VOLT
MED_VOLT
LOW_VOLT
A_MSB
A_LSB
R_MSB
R_LSB
range selector
200V // 1M // 2A
20V // 100K // 200mA
2V // 10K // 20mA
200mV // 1K // 2mA
device selector
Voltage
AC Voltage
Current
AC Current
Resistance
R_SEL
LCD2
LM016L
VSS
VDD
VEE
RS
RW
E
D0
D1
D2
D3
D4
D5
D6
D7
RS
EN

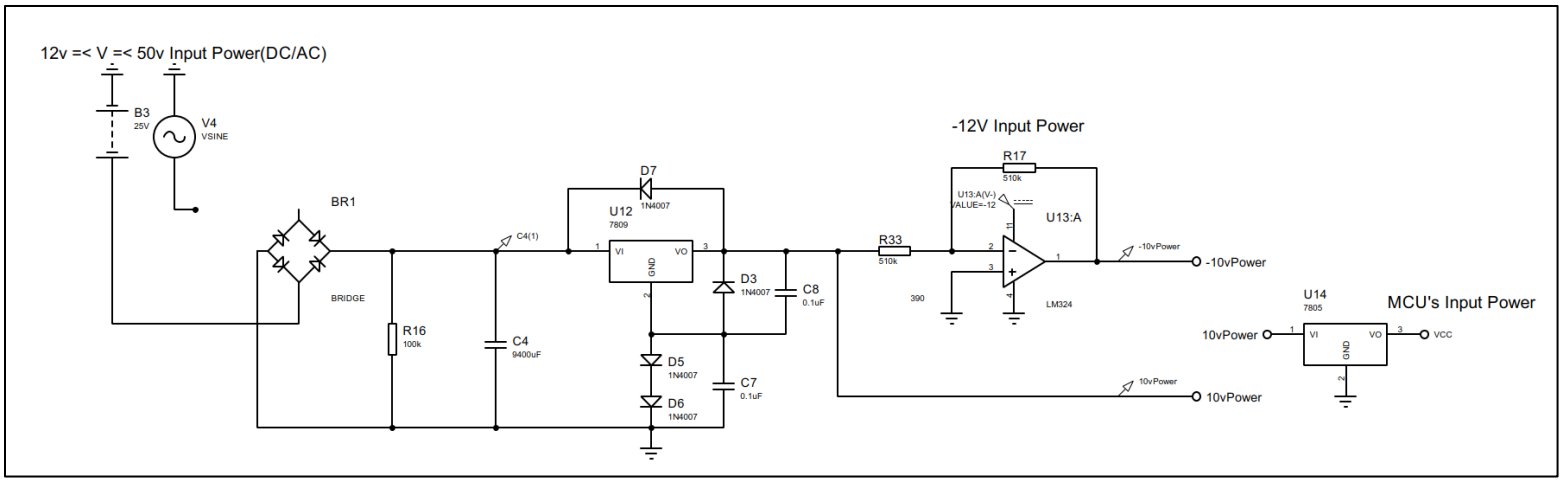
AVR Circuit



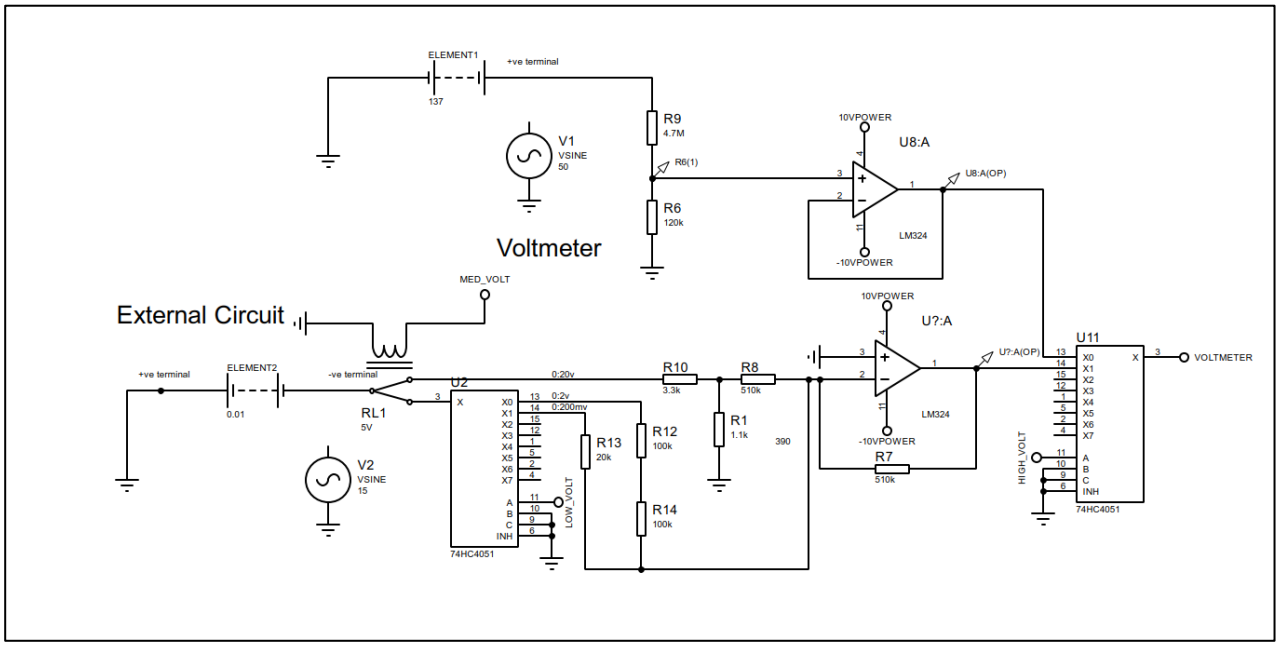
AC to DC Circuit



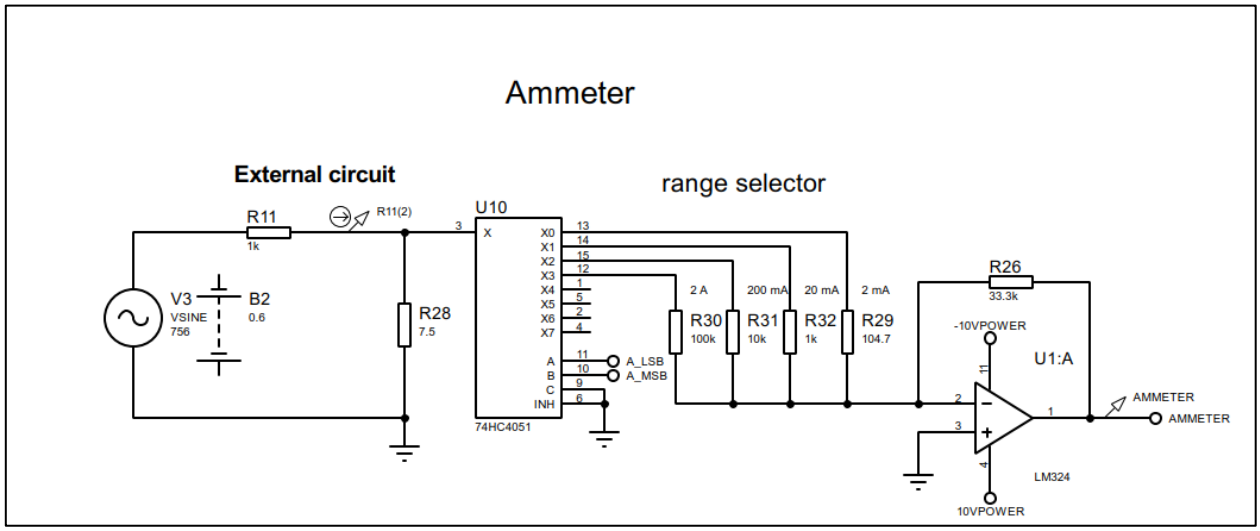
Ohmmeter Circuit



Power Circuit



Voltmeter Circuit



Ammeter Circuit