

5-26-19

Moisture Analyzer Interface

V1.00

Step-By-Step Instructions

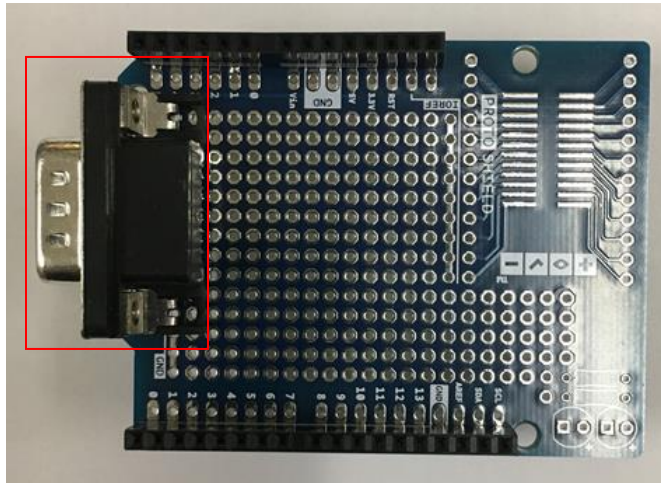


Moisture Analyzer Interface Hardware Components:

Add components to RS-232 serial interface board.

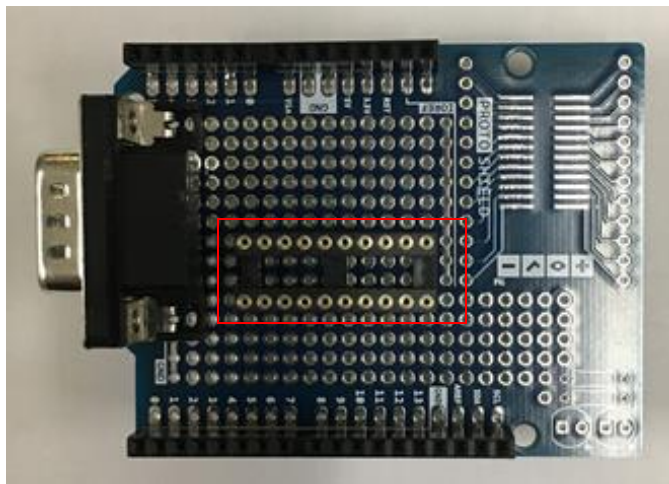
- (Need to convert TTL level signals to $\pm 12\text{V}$ level signals)

Step #1: Add DB9 male connector.

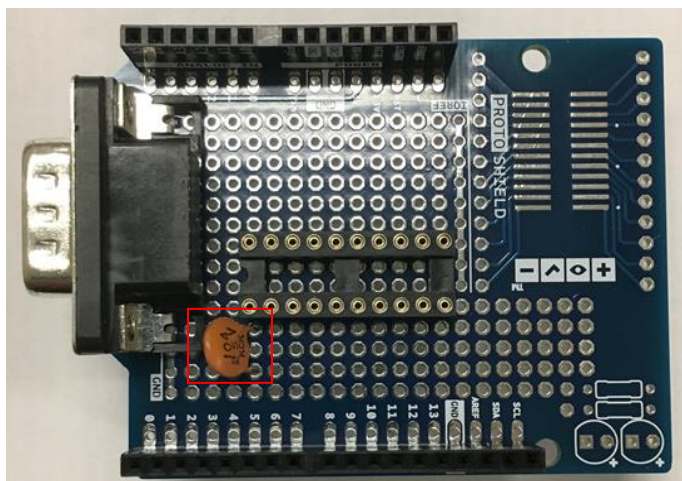


RS-232 serial interface board

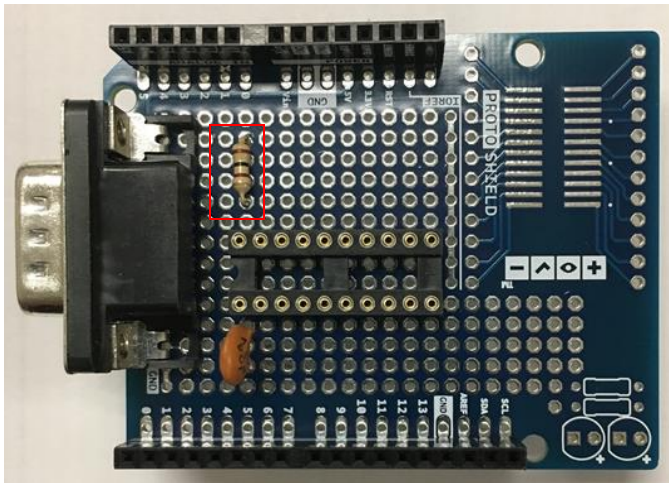
Step #2: Add 20 pin DIP socket for MAX233 chip.



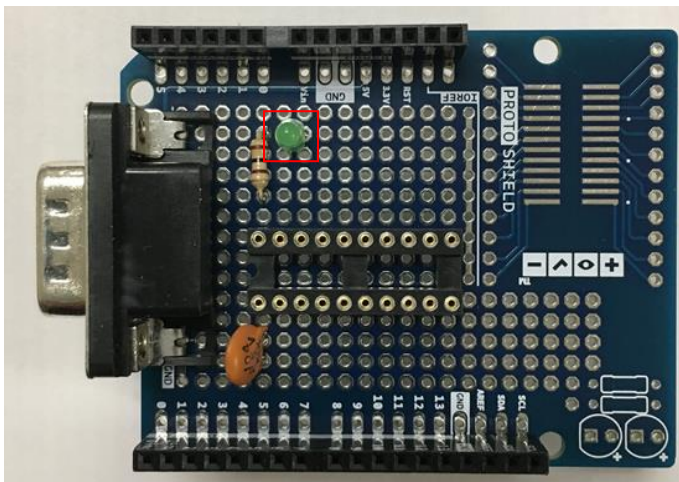
Step #3: Add 0.01uF capacitor (C1).



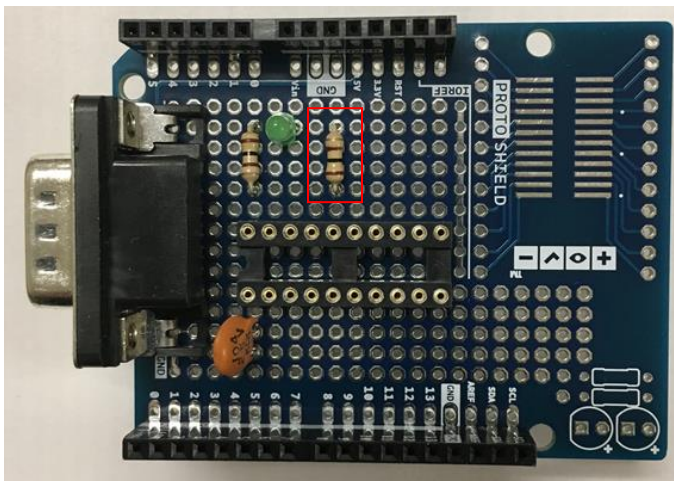
Step #4: Add 100 ohm resistor (R1).



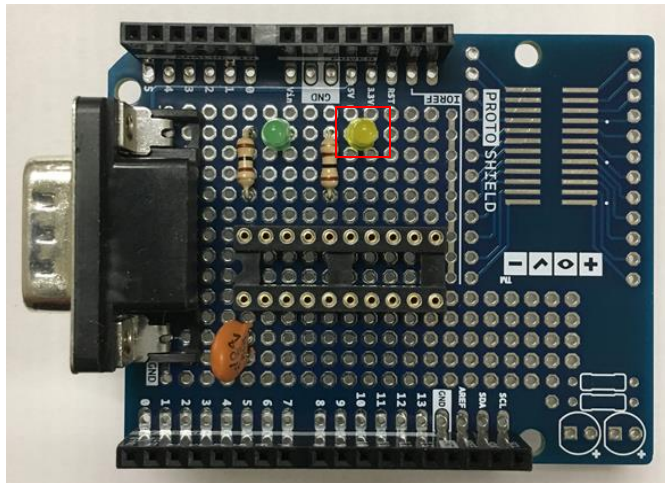
Step #5: Add green led (LED 1 - WDT).



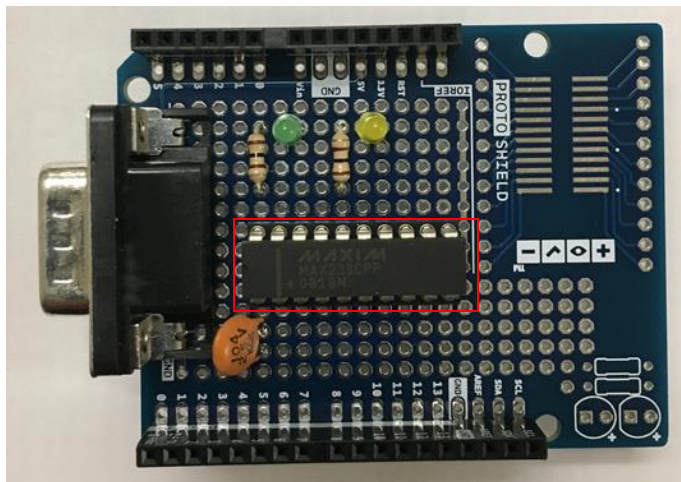
Step #6: Add 100 ohm resistor (R2).



Step #7: Add yellow led (LED 2 - measuring).



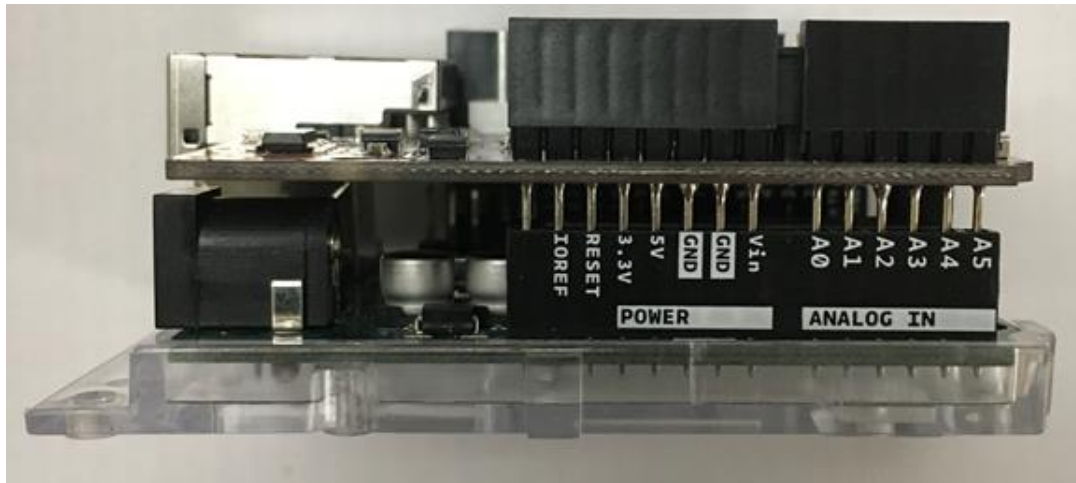
Step #8: Install MAX233 chip in socket. (Finished board)



Step #9: Place the WIZNET W6100 Ethernet shield board on top on the Arduino UNO board.



Step #10: Boards on top of each other.



Step #11: Serial Interface board added to group.

