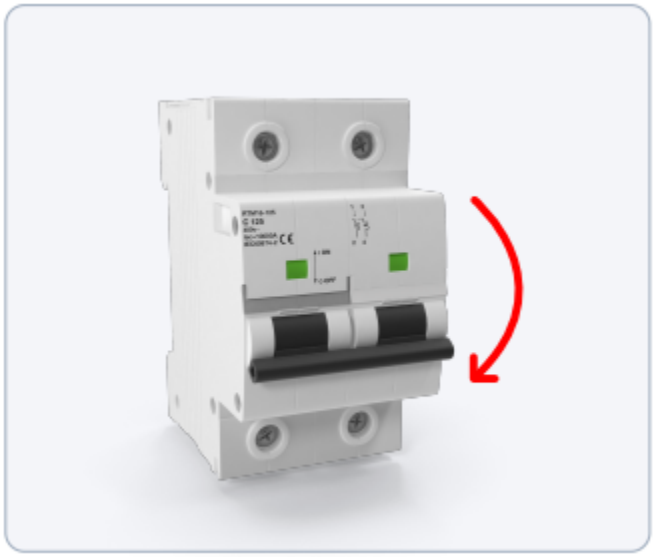
General Code Update Guide

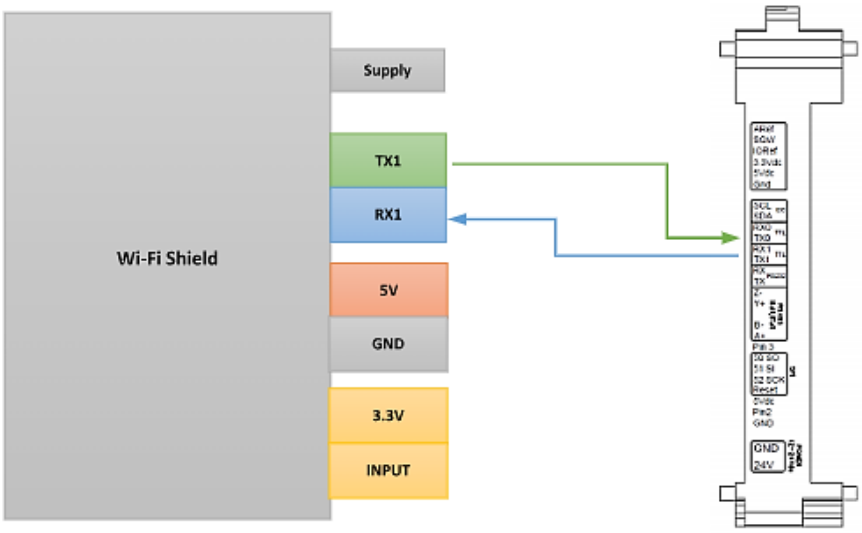
1. Turn off the power of whole system through main power breaker



2. Mount the SD Card in the M-Duino PLC (should not be more than of 4GB)

3. Connect the TX1 of the PLC to the RX1 of the Wi-Fi Shield

4. Connect the TX1 of the Wi-Fi Shield to the RX1 of the PLC



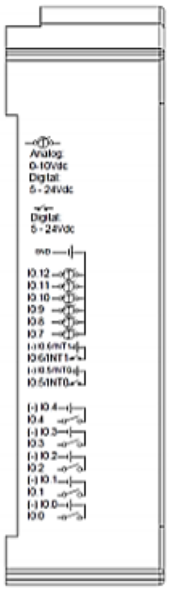
5. Cross check the number of sensors and respective pin numbers carefully.

Sensor to Pin Interfacing

Name	Pin No.	Count Variable	Status Variable
Sensor 1	I0_12	SR1	SS1
Sensor 2	I0_11	SR2	SS2
Sensor 3	I0_10	SR3	SS3
Sensor 4	I0_9	SR4	SS4
Sensor 5	I0_8	SR5	SS5
Sensor 6	I0_7	SR6	SS6

Respective Pin Logic

Pin No.	Count Var	Count Logic	Status Var	Status Logic
I0_12	SR1	Good Count	SS1	Event
I0_11	SR2	Rejection	SS2	NA
I0_10	SR3	Good Count	SS3	Event
I0_9	SR4	Rejection	SS4	NA
I0_8	SR5	Good Count	SS5	Event
I0_7	SR6	Rejection	SS6	NA



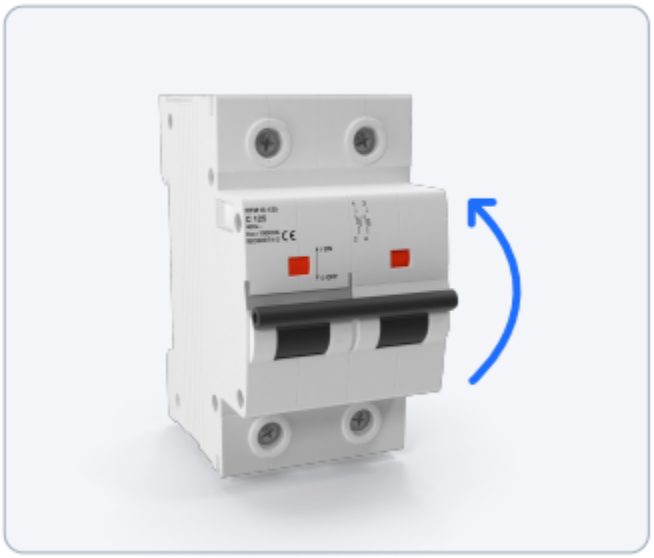
6. Now upload the PLC Code as provided in the given folder

7. Upload the memory clear code in Wi-Fi Shield as given in the folder

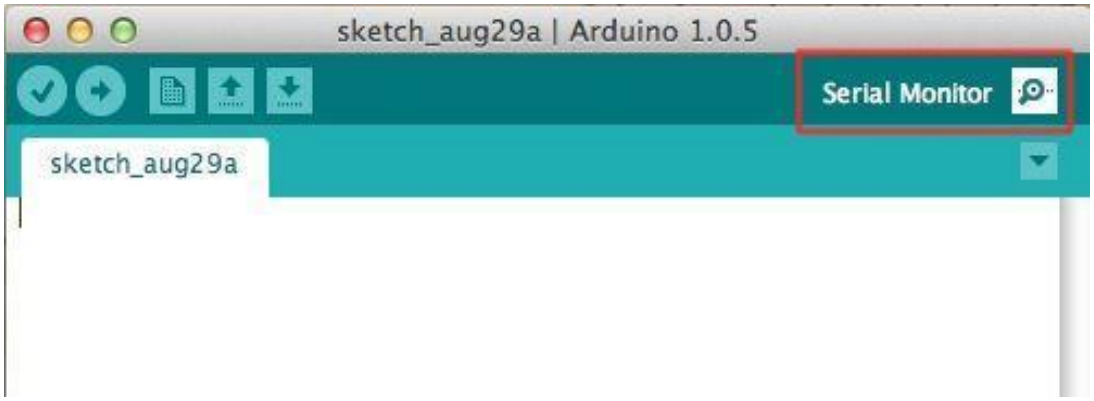
8. Upload the Wi-Fi Shield Code as given in the folder

9. Remove all the cable connection between Laptop and Wi-Fi Shield

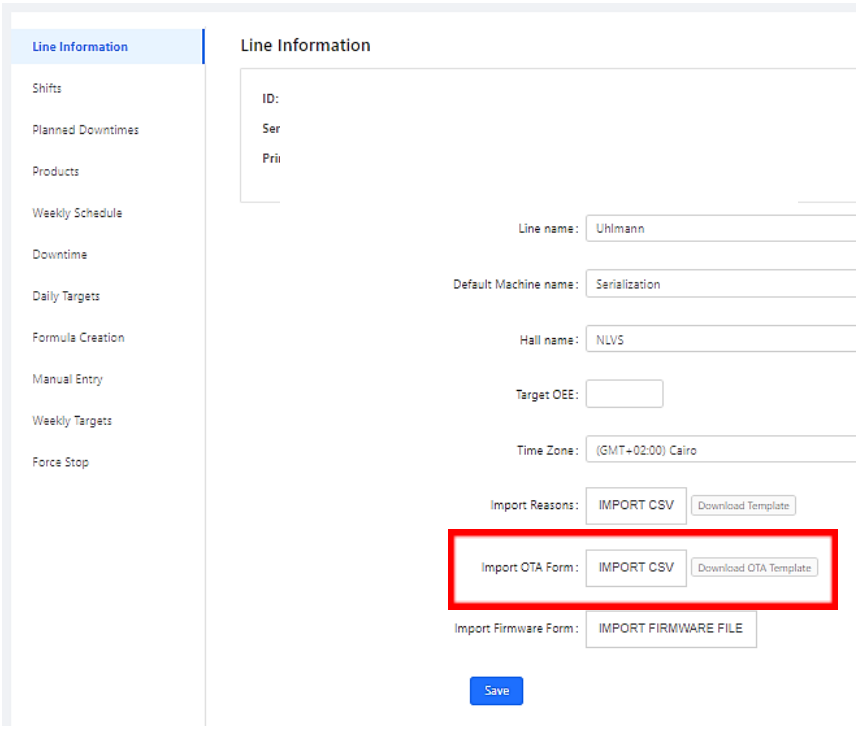
10. Finally turn ON the main power breaker and connect WiFi Shield with Laptop.



11. Open the Arduino IDE Serial Monitor and enter the respective parameters in JSON format. Make sure this is done within first 1.5 minutes of the start.



12. Do not forget to upload the OTA Parameter CSV file in the dashboard and then download it for confirmation. Also upload the respective .bin file for OTA Firmware Update.



Required Files :

1. Arduino - PLC Code
2. WiFi Shield Code
3. Memory Erase Code
4. OTA Parameter CSV File
5. OTA Parameter JSON File
6. Compiled Binary File