

RFID Reader Manual

RFID stands for Radio Frequency Identification. It is the technology used in access cards or badges, we call these small devices "**tags**". And each tag has a unique ID.

This device read the tag's ID on the screen. If it doesn't work please open the RFID Reader file on the computer and plug the device with the cable. Fix the code with the one bellow and then upload it by clicking on this arrow.



```
rfid_reader_final
1 #include <SPI.h>
2 #include <MFRC522.h>
3 #include <LiquidCrystal.h> |
4 LiquidCrystal lcd(12, 11, 5, 4, 3, 2);
5 MFRC522 rfid (10, 9);
6 String tagId;
7
8 void setup() {
9     SPI.begin();
10    rfid.PCD_Init();
11    lcd.begin(16, 2);
12    lcd.print("Waiting for RFID");
13    lcd.setCursor(0, 1);
14    lcd.print("tags...");
15 }
16
17 void tagIdFinder(byte *buffer, byte bufferSize) {
18     tagId="";
19     for(byte i = 0; i < bufferSize; i++) {
20         tagId += String(buffer[i], HEX);
21     }
22 }
23
24 void loop() {
25     if(rfid.PICC_IsNewCardPresent()) {
26         if(rfid.PICC_ReadCardSerial()) {
27             tagIdFinder(rfid.uid.uidByte, rfid.uid.size);
28             lcd.clear();
29             lcd.setCursor(0, 0);
30             lcd.print("Tag detected:");
31             lcd.setCursor(0, 1);
32             lcd.print(tagId);
33         }
34     }
35 }
```