



VTI1E2 – APLIKASI MIKROKONTROLER dan ANTAR MUKA[©] SEMESTER GANJIL – KURIKULUM 2020

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Program Studi D3 Teknologi Telekomunikasi
Fakultas Ilmu Terapan - Universitas Telkom

VTI2D3
Aplikasi Mikrokontroler dan Antarmuka
Materi ke-6: Antarmuka Dasar Mikrokontroler (Lanjut)

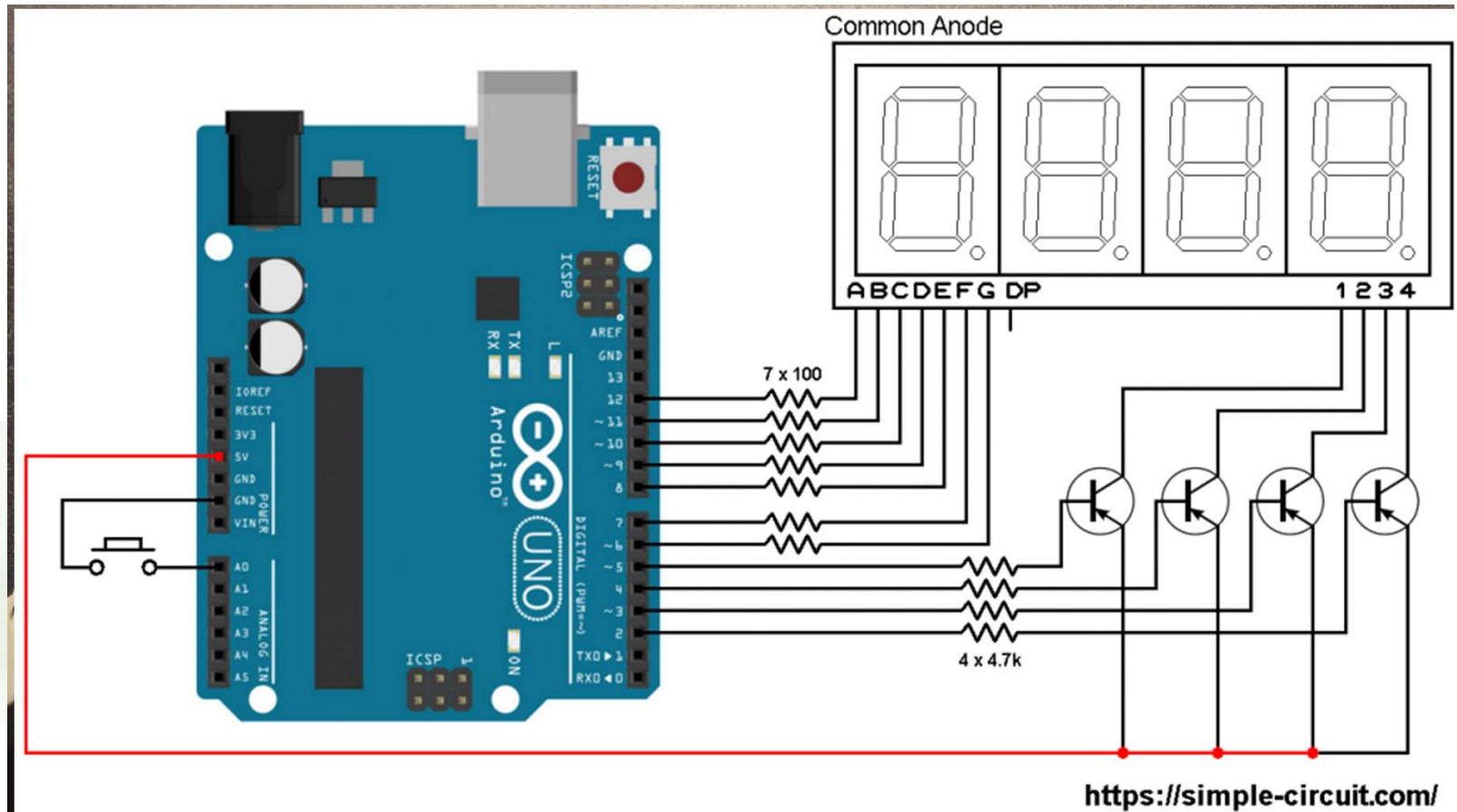
Denny Darlis, S.Si., M.T.

13770026

Microcontroller Interfacing - Advanced



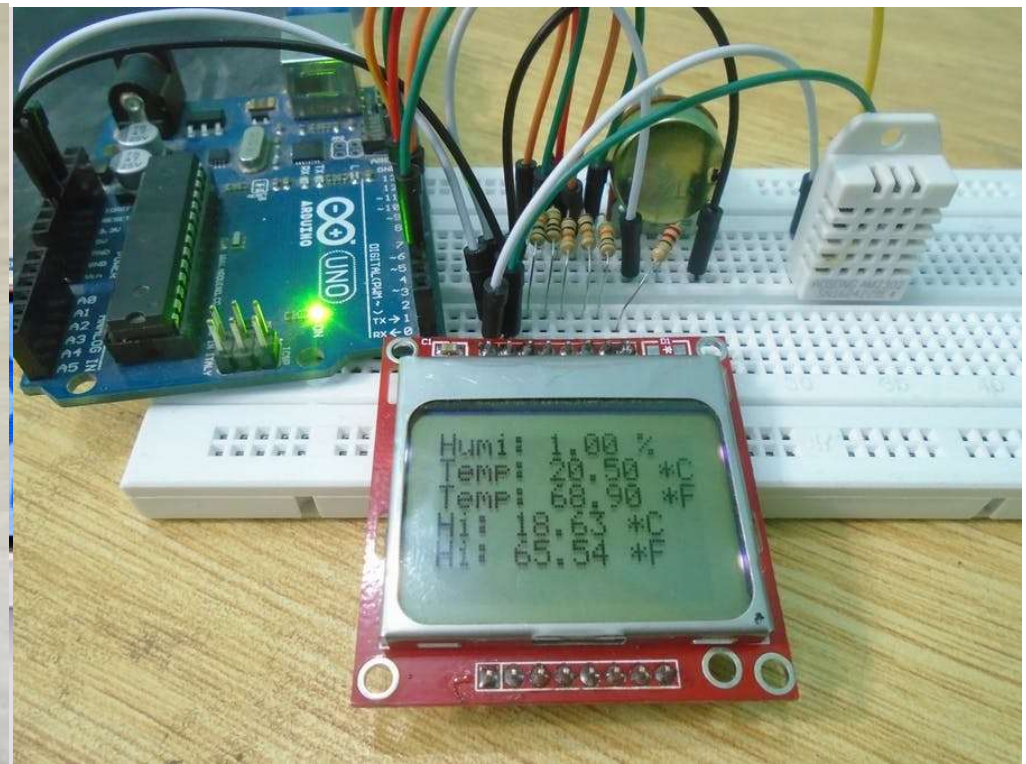
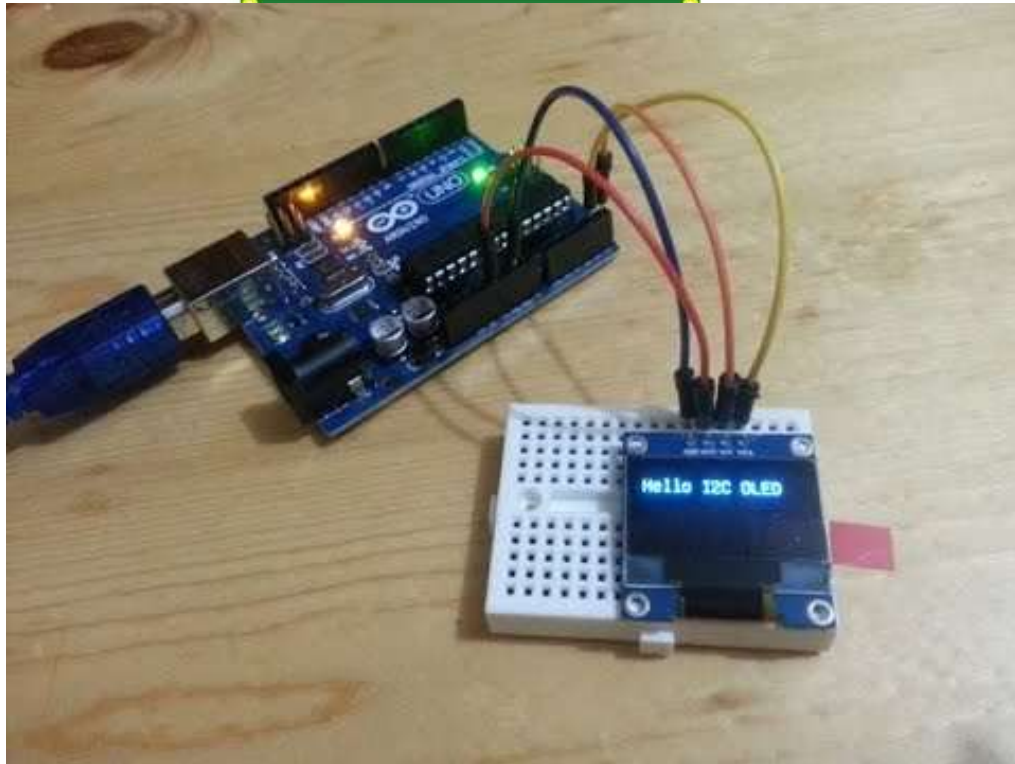
Interfacing with Multiplexing 7-Segment Display



<https://www.ardumotive.com/2-digit-7seg-display-en.html>

<https://simple-circuit.com/arduino-7-segment-display-4-digit/>

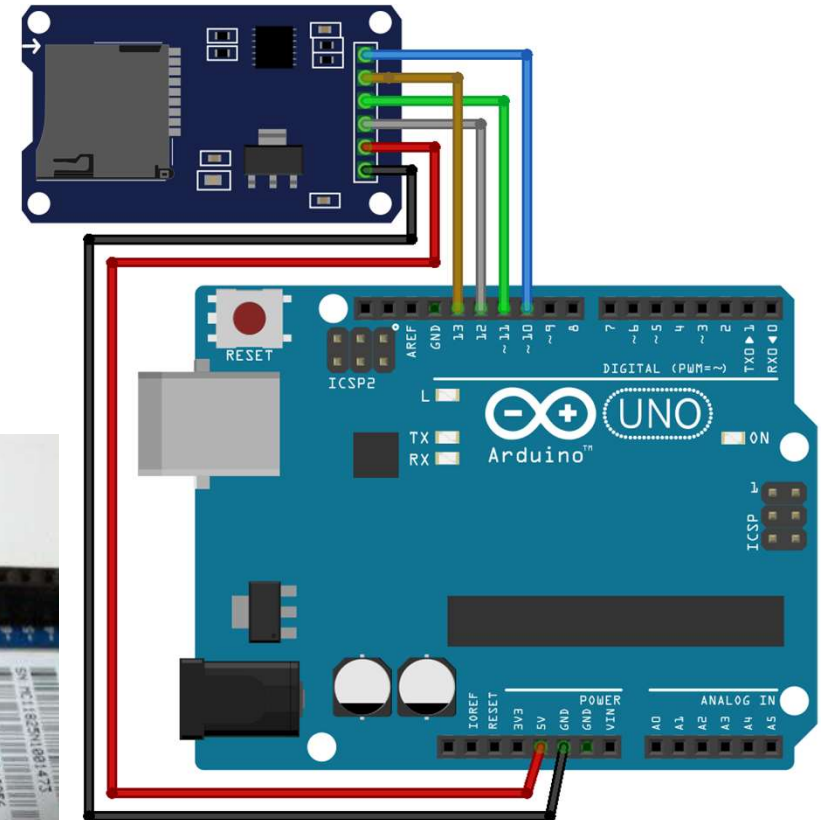
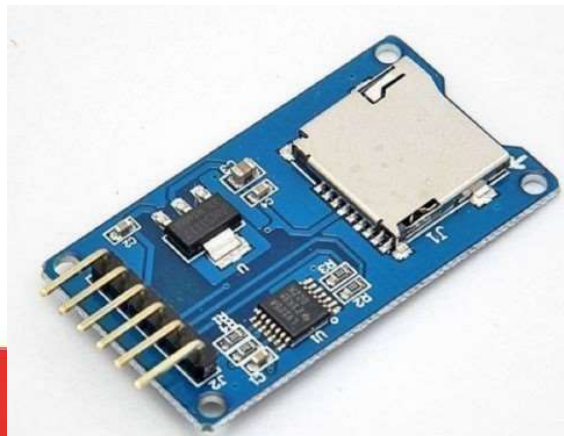
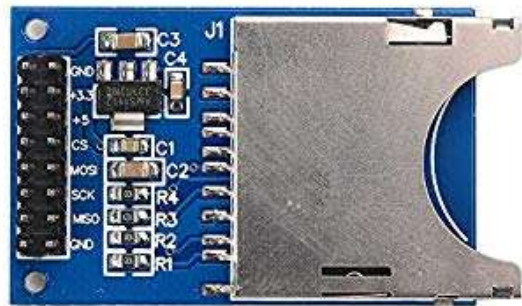
Interfacing with Graphical LCD Display



<https://www.arduino.cc/en/Guide/TFTtoBoards>

<https://www.instructables.com/id/Testing-a-Graphic-LCD-Module/>

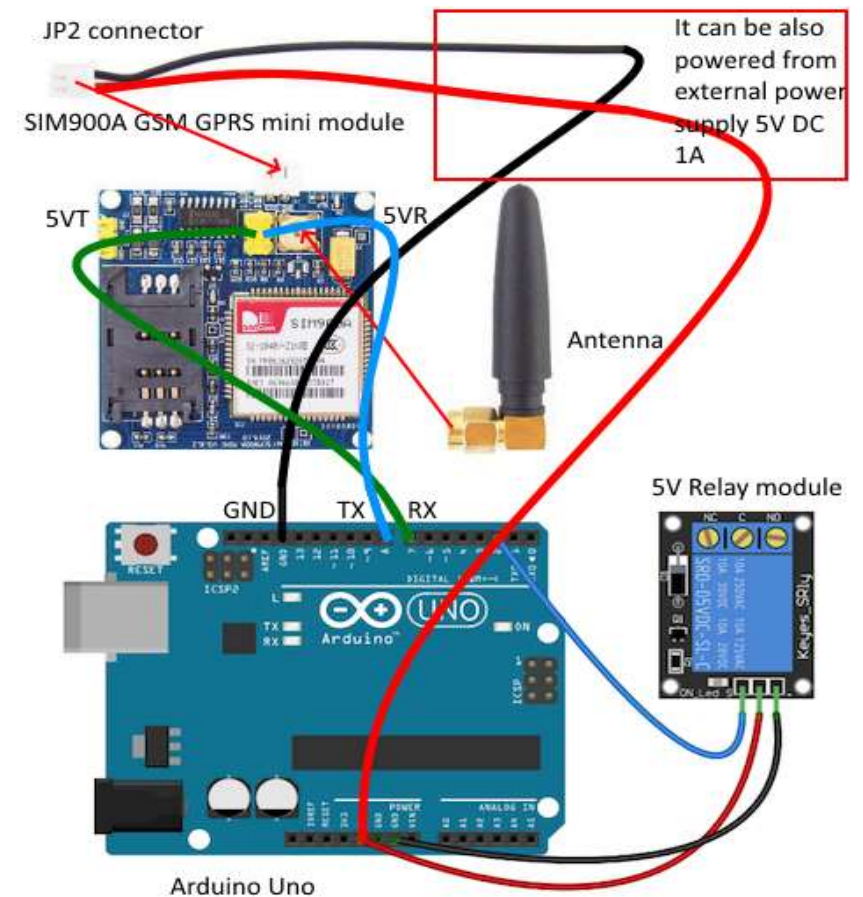
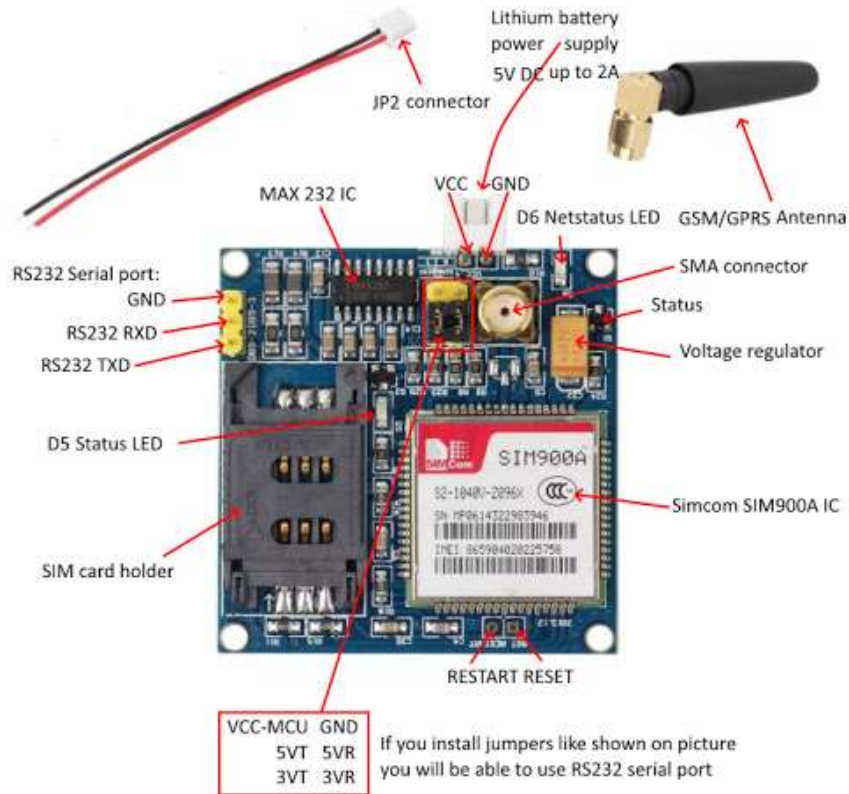
Interfacing with SD Card



www.labelektronika.com

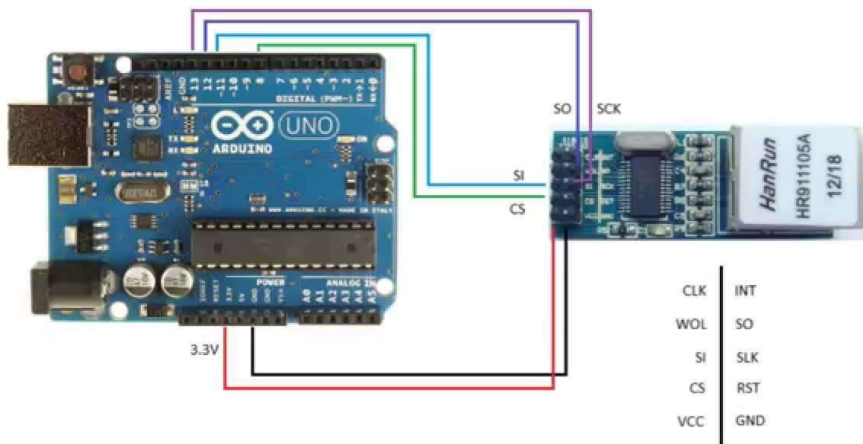
fritzing

Interfacing with GSM/GPRS Modem

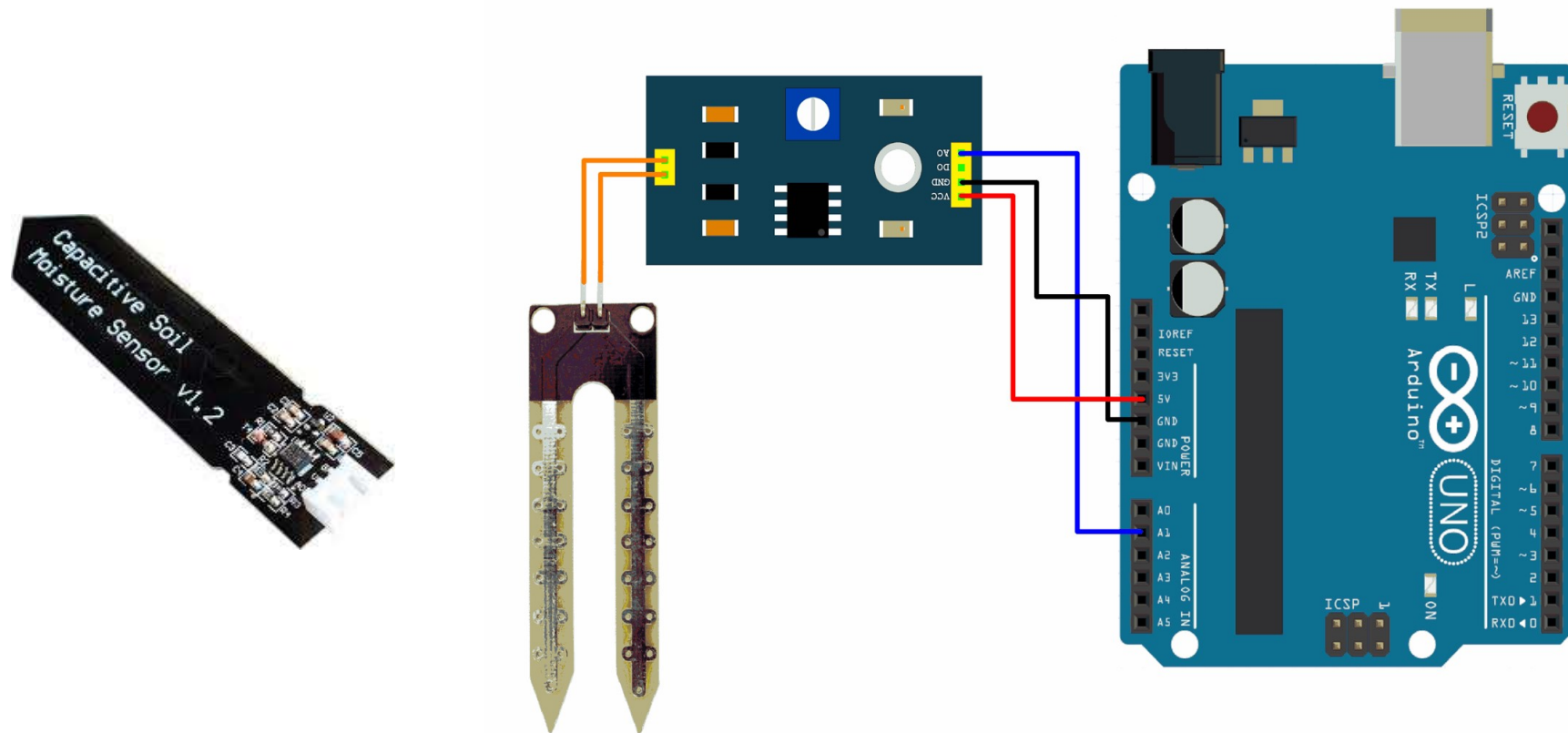


<http://acoptex.com/wp/project-105c/>

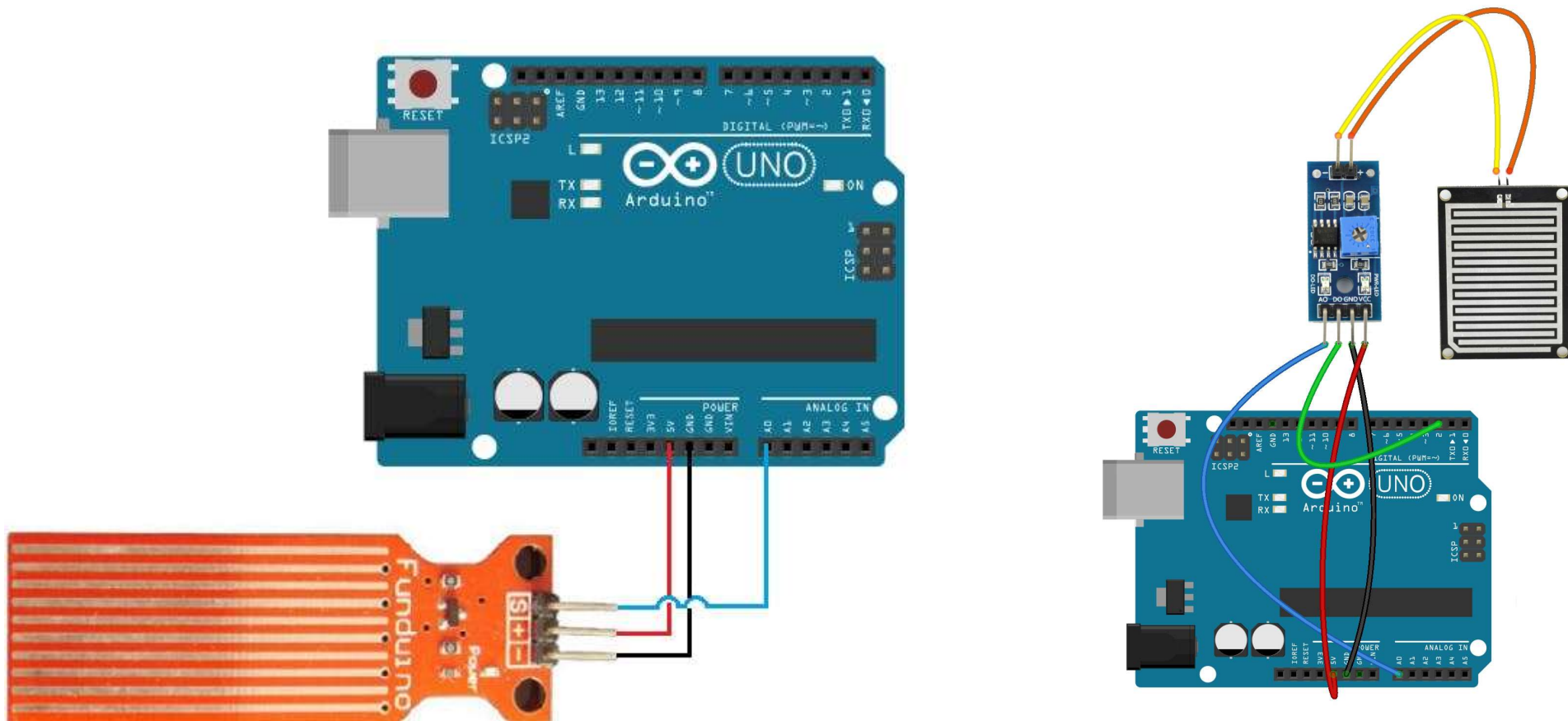
Interfacing with Ethernet



Interfacing with Soil Moisture Sensor

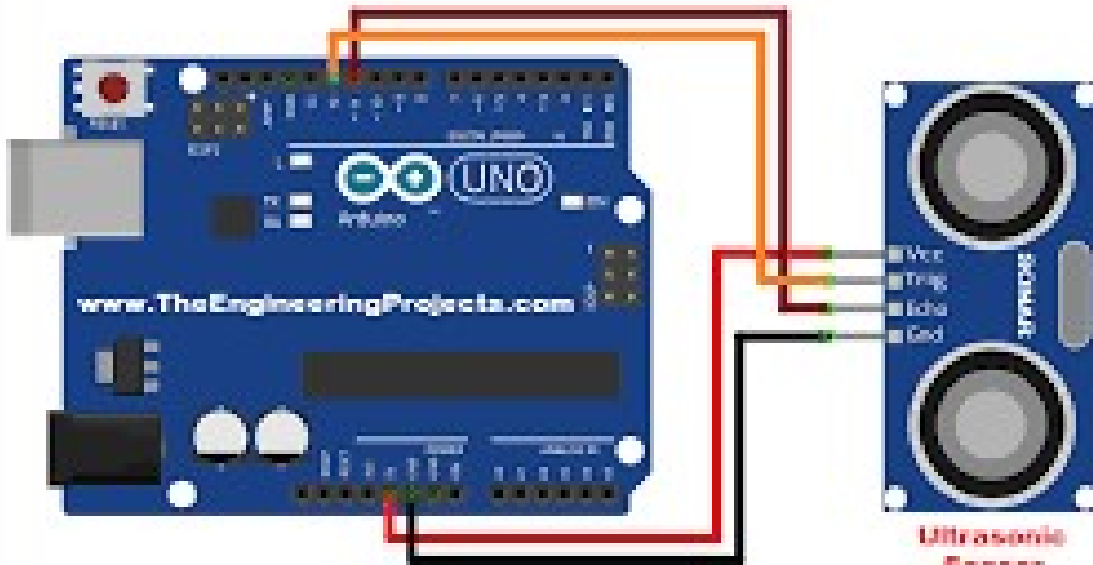


Interfacing with Rain Sensor

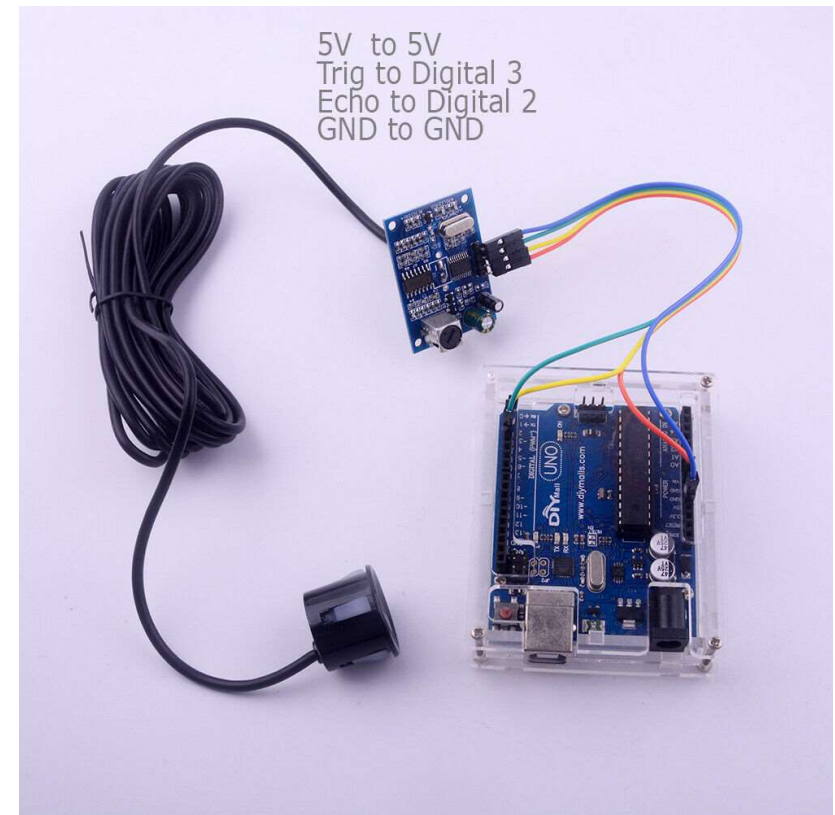


Interfacing with Ultrasonic Sensor

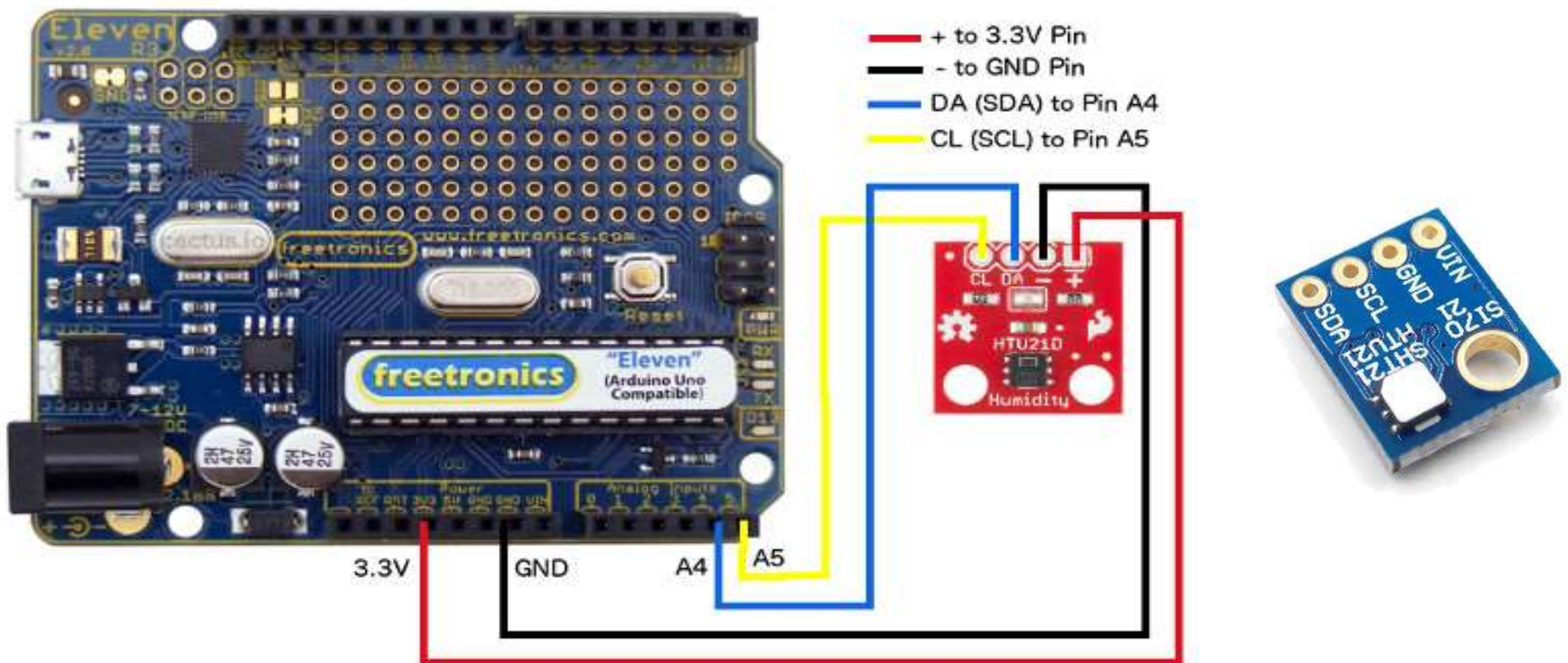
Ultrasonic Sensor Arduino Interfacing



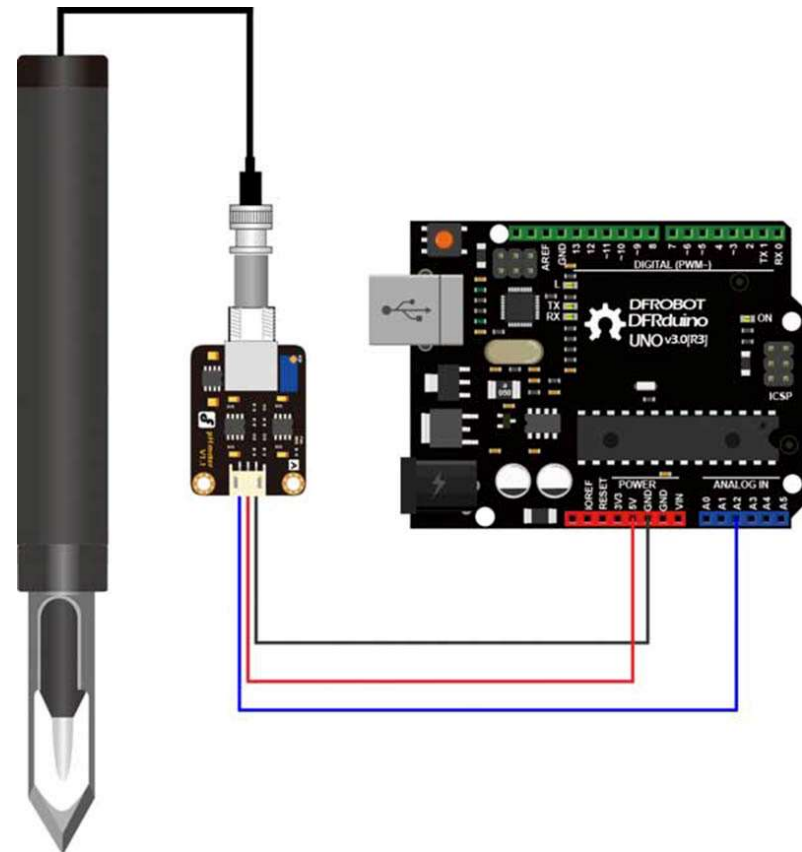
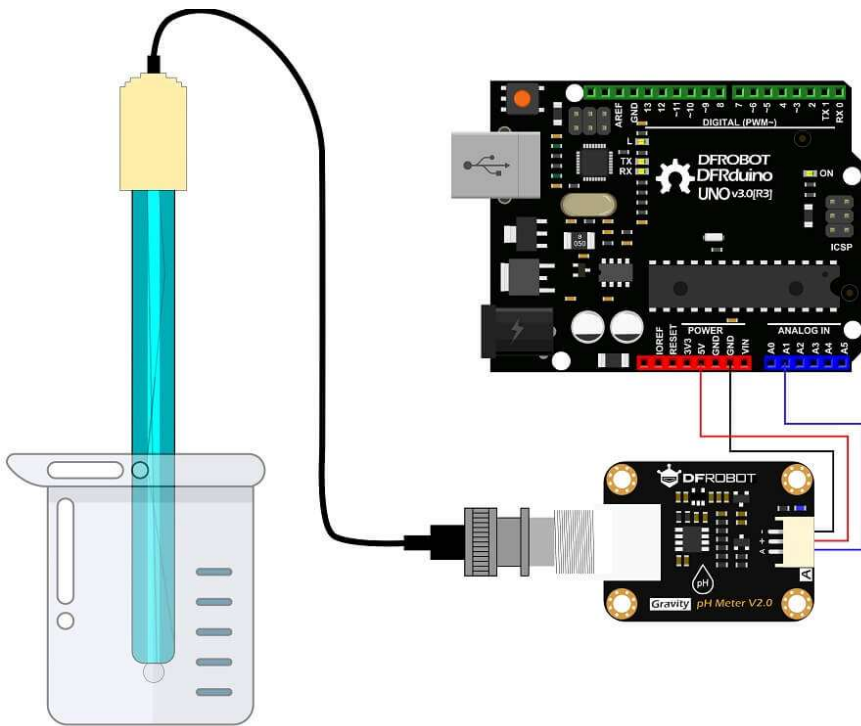
www.TheEngineeringProjects.com



Interfacing with Humidity & Temperature Sensor

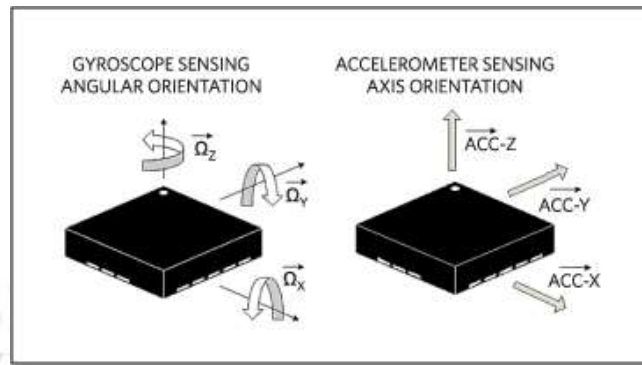
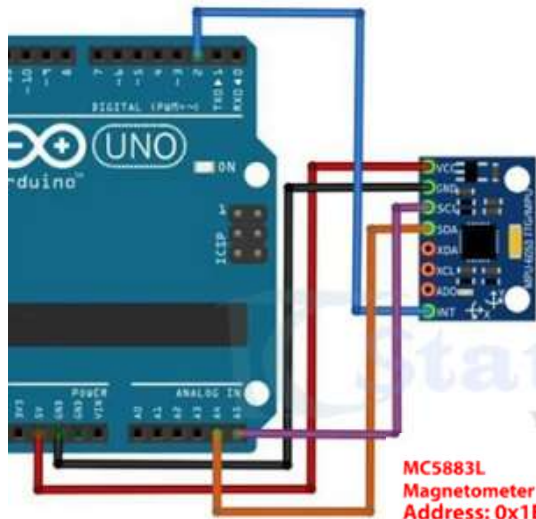


Interfacing with pH Sensor



Interfacing with Accelerometer/Gyro Sensor

GY-521 MPU6050 3-Axis Acceleration Module + Arduino

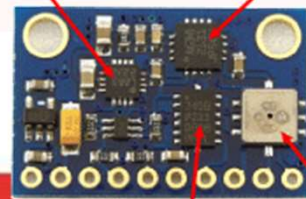


GY - 80

GY - 521

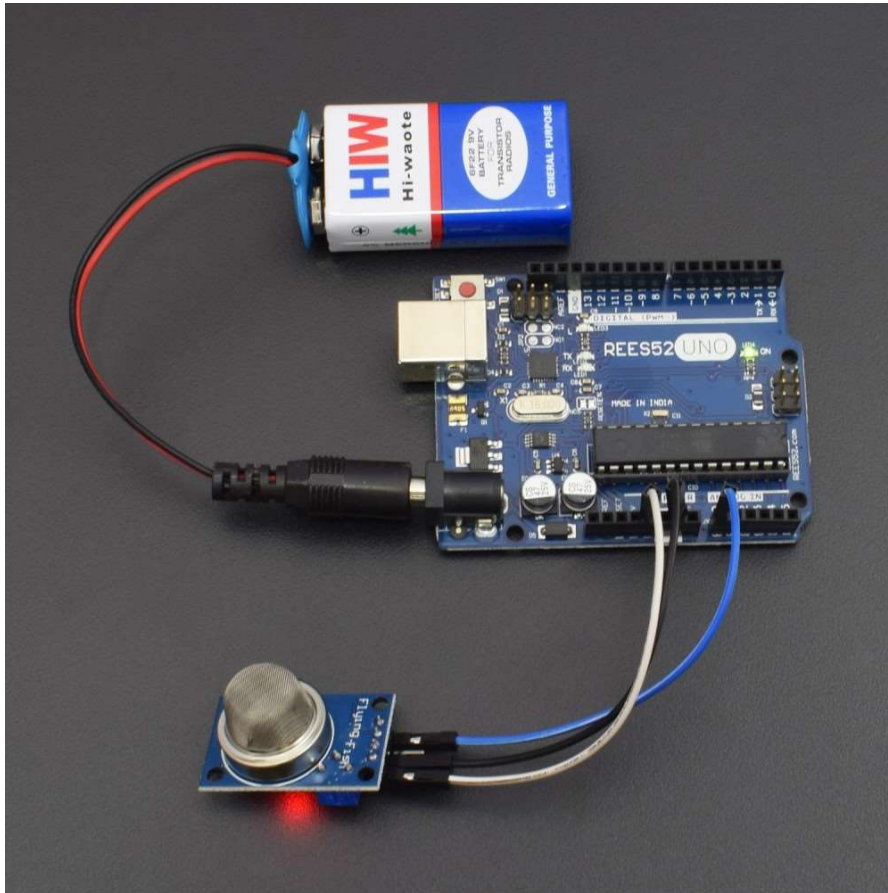
MC5883L
Magnetometer
Address: 0x1E

L3G4200D
Gyroscope
Address: 0x69

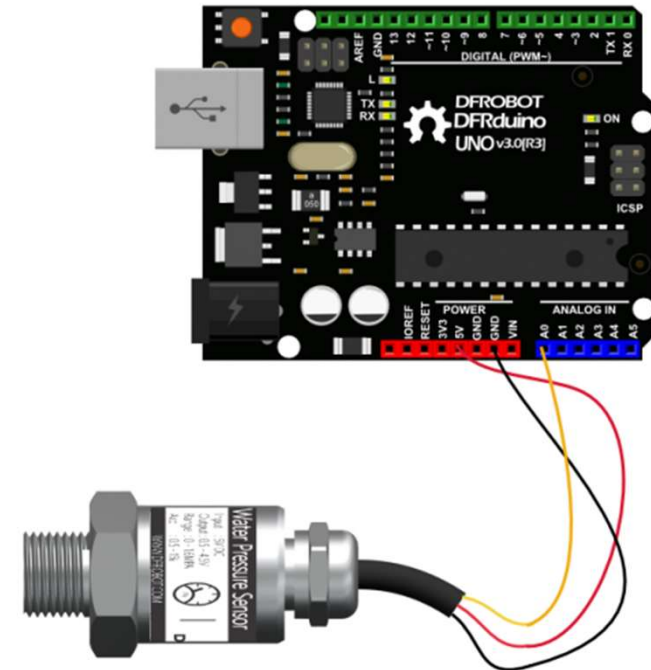
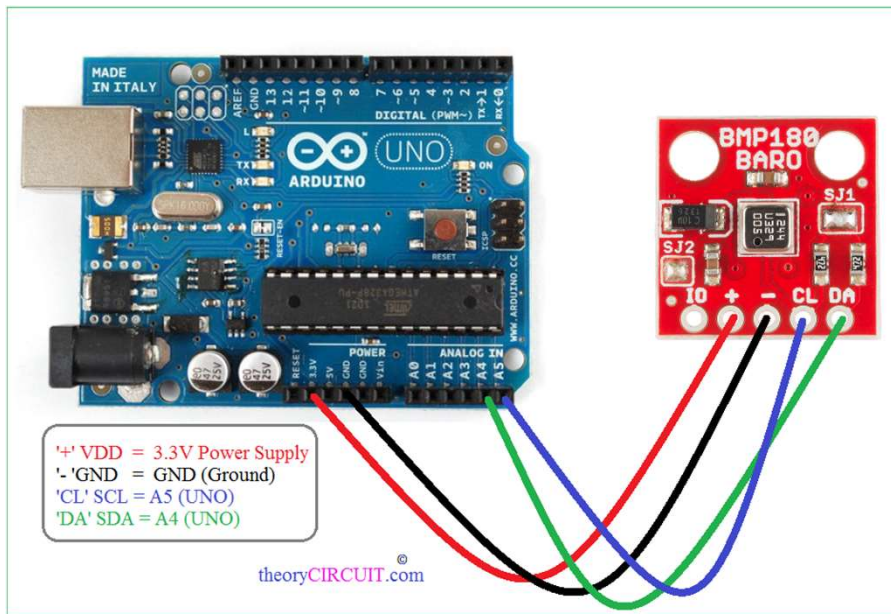


GY-88 Sensor

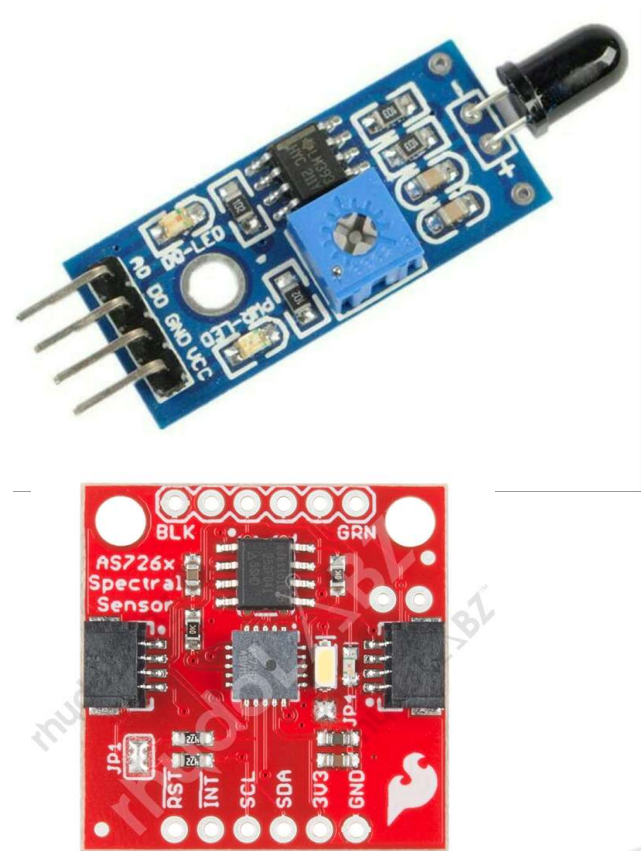
Interfacing with Gas Sensor



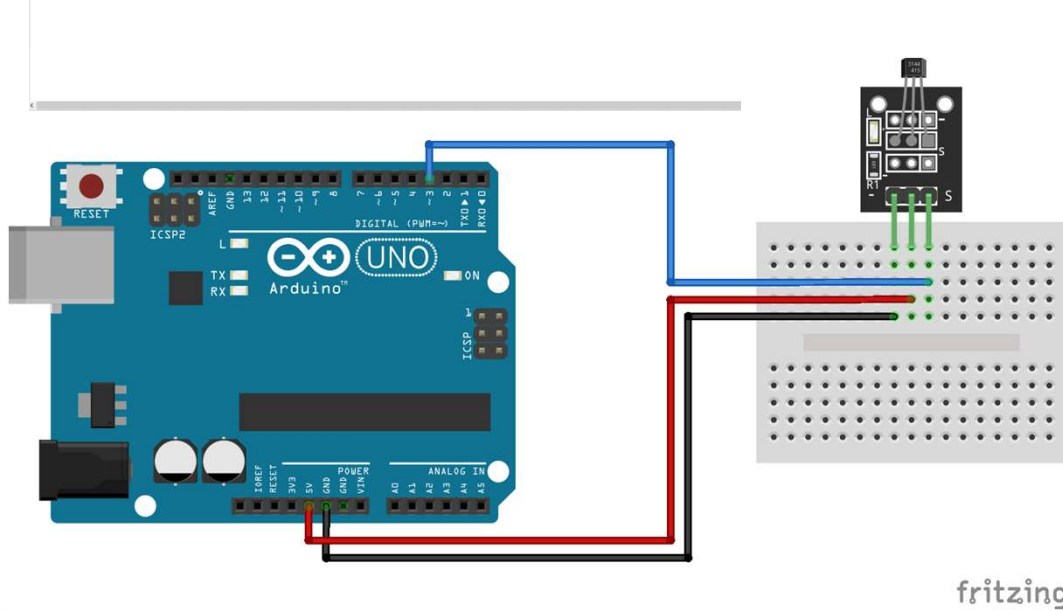
Interfacing with Pressure Sensor



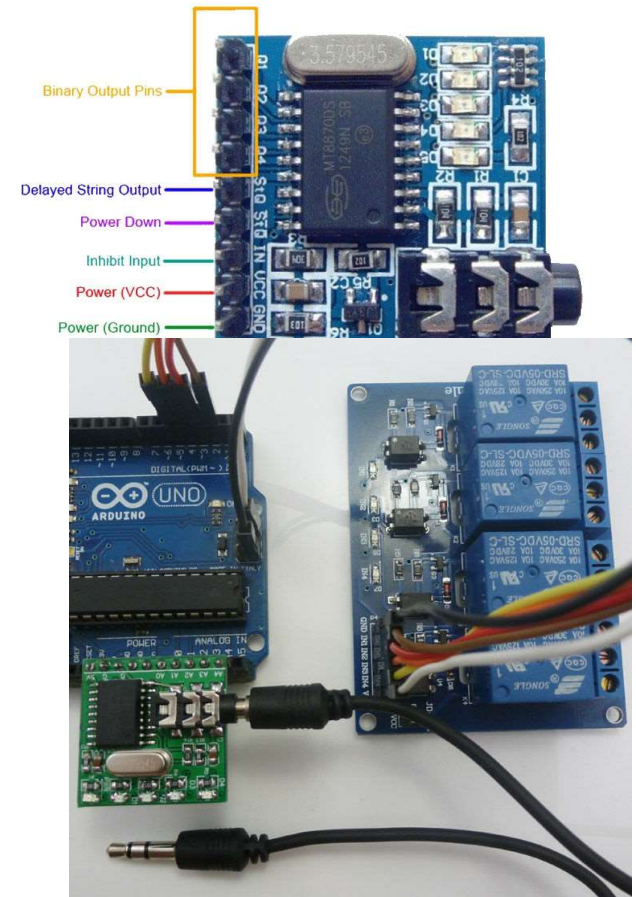
Interfacing with Passive Infra Red Sensor



Interfacing with Magnet Sensor



Interfacing with DTMF Decoder

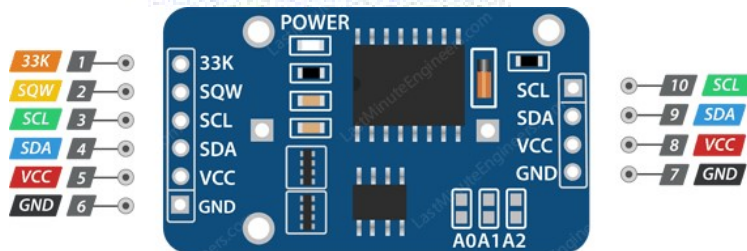


Interfacing with RTC Module

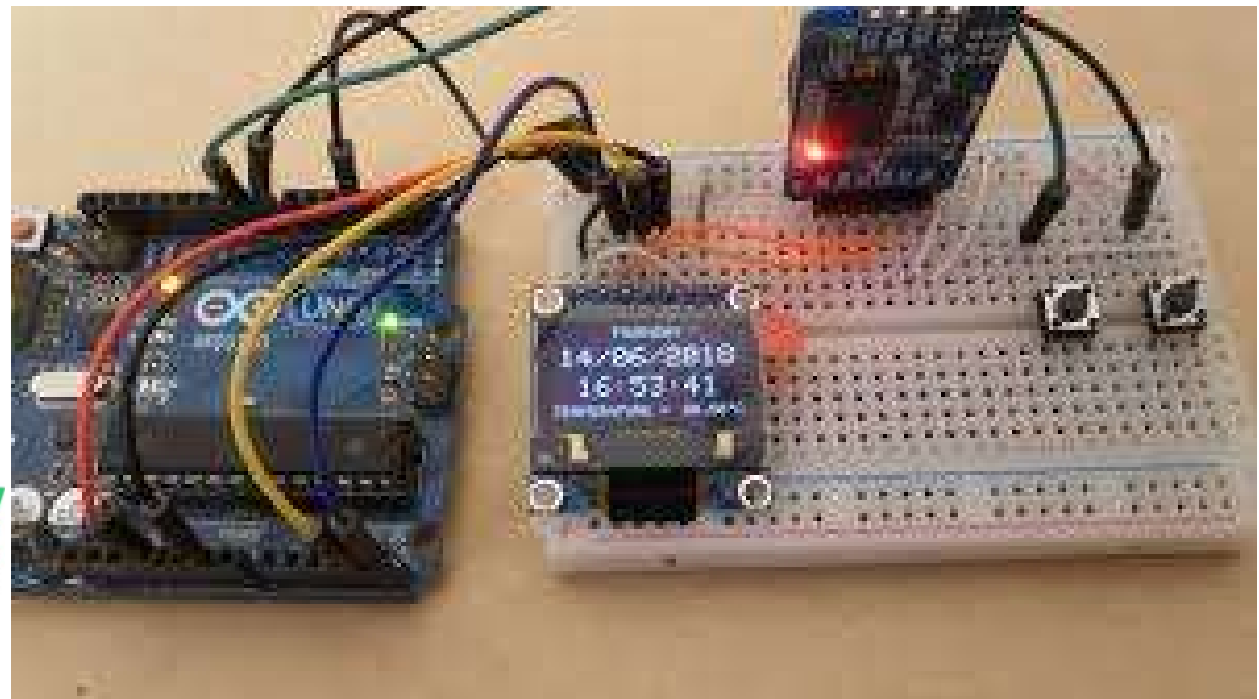
RTC - Chip DS1302



Real Time Clock



DS3231 Pinout



1. <https://www.studentcompanion.co.za/microcontroller-interfacing-basics/>
2. <https://www.studentcompanion.co.za/microcontroller-interfacing-advanced/>
3. <https://www.studentcompanion.co.za/microcontroll>
4. <https://www.electronicwings.com/sensors-modules/sensors-moduleser-interfacing-sensors/>
5. <http://acoptex.com/wp/project-105c/>

Ada pertanyaan?

**Semoga Bermanfaat dan
Terima Kasih atas Perhatiannya**