



CanSat Luxembourg kit

Hardware

- 1x [Arduino Uno R3](#)
- 1x [Universal prototyping Shield Uno R3](#)
- 2x [APC220 Radio Communication Module – library download](#)
- 1x [USB to TTL Converter \(CP210\) – driver download](#)
- 1x [BMP280 3.3 V Digital Barometric Temperature and Pressure Sensor](#)
- 1 x [MPX4115A pressure sensor](#)
- 1 x [NTC 10K PTH Thermistor](#)
- 1x [Breadboard 400](#)
- 5 x 220 Ohm resistor
- 5 x 10k Ohm resistor
- 2 LEDs (1 red, 1 green)
- 10x Jumper wire male male 20 cm
- 5x Jumper wire male female 20 cm
- 5x Jumper wire female female 20 cm
- 1x Battery connector 9V
- Enough male-headers, female headers, jumpers, wires
- All housing materials (shields, threaded ends, nuts, washers)

Software

- Arduino IDE [download](#)
- USB to TTL Converter (CP210) [driver download](#)
- BMP280 sensor and APC220 radio module – [source code download](#)