

CODE ARDUINO CAPTEUR MPXV 6115 V

```
float raw; //sensor digital signal
float Vout; //sensor voltage received
float Pressure;
float Vs = 4.83; //voltage supply
float Patm = 100.85; //atmospheric pressure

void setup() {
  Serial.begin(9600);

}

void loop() {
  raw = 0; //reset digital value
  for (int x = 0; x < 10; x++) raw = raw + analogRead(A0); //sum of 10 measures
  raw = raw/10; //mean of 10 measures
  Vout = raw * 5/1023; //Conversion digital to analog
  Pressure = (Vout-0.92*Vs)/(Vs*0.007652) + Patm; //Conversion voltage into Pressure (kPa)
  Pressure = Pressure * 10; //Conversion kPa into mbar
  Serial.println(Pressure); //prints pressure
  Serial.println("mbar"); //prints unit
  delay(100); //Time between each measurement

}
```