

# Progetto PM10

## luftaden

- [home luftaden](#)
- [mappa](#)
- [rumore e biossido di azoto](#)
- [kit PM10 con istruzioni](#)
- Particulate Matter App
  - [playstore](#)
  - [sorgenti github](#)

## opensensemap

- [home opensensmap](#)
- [API](#)

## sensori

- PM2.5 e PM10: [Nova SDS011 Fyd SDS011 teoria](#)
- ozono:
  - [MQ131: aliexpress 15€](#)
  - [CJMCU-131 MQ131: aliexpress 35€ schema](#)
- temperatura e umidità:
  - [TODO](#): i2c oppure one wire ?

## MQ131

[datasheet](#) - [esempio utilizzo](#) - [wiring](#)

- The MQ131 is a semiconductor gas sensor composed by a heater circuit and a sensor circuit.
- Heater consumes at least **150 mA**. So, don't connect it directly on a pin of the Arduino.
- Sensor MQ131 requires minimum **48h preheat** time before giving consistent results (also called "burn-in" time)
- There are two different MQ131; a black bakelite sensor for **low concentration** of ozone and a metal sensor for **high concentration** of ozone.
- This [driver](#) is made to control the "naked" Winsen MQ131. The driver is able to pilot the low concentration version and the high concentration version.
- **To measure the air quality (e.g. pollution)**, it's better to use the low concentration MQ131 because the high concentration is not accurate enough for low concentration.

## sensori attivi

### monitorioveronese

- monitorio via dei tigli
- monitorio piazza buccari
- ferrazze
- ponte florio
- san bonifacio

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