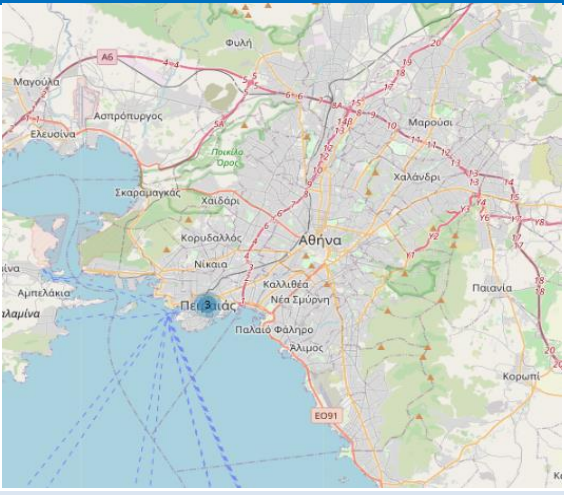


CaseStudy

AIR QUALITY AND METEOROLOGICAL PARAMETERS MONITORING STATIONS FOR PIRAEUS MUNICIPALITY



Project ID:

The project was about supply and installation on two roofs of buildings which belongs to **Municipality of Piraeus**,

- ❖ Two compact meteorological stations, connected with
- ❖ Two mini stations with **air pollution sensors**

The stations measure and provide air quality data of **Piraeus area** in real time.

IN BRIEF:

System : Telemetric air quality and urban climate stations

Place : Municipality of Piraeus

Period : December 2020

ADMINISTRATOR:

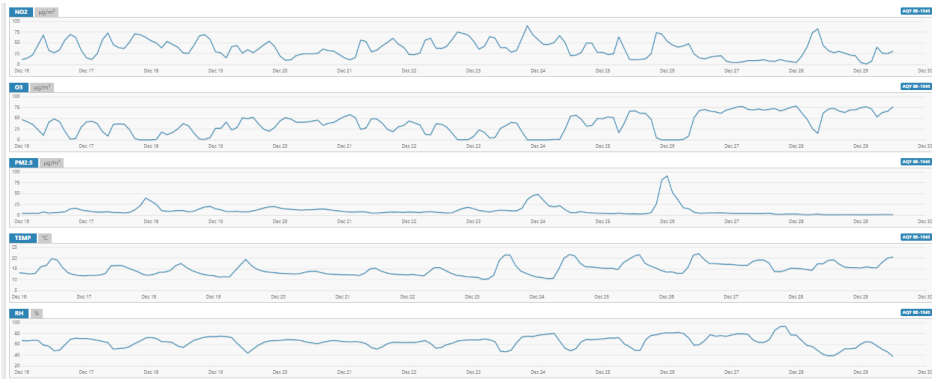
Municipality of Piraeus

Important:

- Zero cost for data transmission
- Sensor technology without moving parts
- Minimum maintenance requirement



The data transmission is made on cloud via the internet network of the municipality. The visualization and quality control of data are made automatically.



Air quality measured parameters:

- ✓ Ozone (O₃)
- ✓ Particles (PM_{2.5})
- ✓ Nitrogen dioxide (NO₂)



Meteorological parameters:

- ✓ Air Temperature
- ✓ Air humidity
- ✓ Barometric pressure
- ✓ Wind speed
- ✓ Wind direction
- ✓ Solar radiation
- ✓ Rain
- ✓ Number of lightning strikes
- ✓ Distance of lightning strikes



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