

Air Quality Dataset Description

This dataset contains information on air quality measured by a chemical sensor device deployed in a polluted area of an Italian city. The data spans one year, from March 2004 to February 2005, with hourly readings.

Key characteristics:

- **Type:** Multivariate time series
- **Source:** Chemical sensor device
- **Location:** Italian city (road level, polluted area)
- **Timeframe:** March 2004 - February 2005 (1 year)
- **Number of instances:** 9358 (hourly measurements)
- **Number of features:** 15

Data content:

- **Sensor responses:** Hourly averaged responses from 5 metal oxide sensors in the device.
- **Ground truth:** Hourly averaged concentrations of CO, Non-methane hydrocarbons (NMHC), Benzene, NO_x, and NO₂ measured by a co-located certified analyzer.
- **Time:** Date and time of the measurement.
- **Missing values:** Represented by -200.

Vito, Saverio. (2016). Air Quality. UCI Machine Learning Repository.
<https://doi.org/10.24432/C59K5F>.

<https://archive.ics.uci.edu/dataset/360/air+quality>