



Air Pollution Monitoring Technologies
for Urban Areas

AirMonTech Database

The Air Quality Monitoring Information Base: a unique source of knowledge



AirMonTech is a European research project
co-financed by the European Commission in
the 7th Framework Programme



Welcome to the AirMonTech database

AirMonTech is an EU FP7 project compiling information to harmonise current air pollution monitoring techniques and to advise on future monitoring technologies and strategy. It collects existing information on current and future air quality (AQ) monitors.

The **AirMonTech Consortium** is made up of nine partners from many of the leading research organisations in Europe. The consortium brings together unique and complementary skills and expertise in the areas of measurements and instrument development. The Consortium is made up of air quality monitoring experts, measurement technique developers and health effect researchers from renowned research institutions.

We would like to receive existing information on current measurement technologies and procedures for measurements of regulated air pollutants in Europe. For more details see the [letter of request](#) we sent out to operators of air pollution monitoring networks and air quality reference laboratories. We are also looking for information on established and new measurement technologies for air quality monitoring. More details concerning this request can be found in the [letter](#) we sent to developers and manufactures.

The AirMonTech project is still ongoing. New information will be added to the database on a continuous basis. Please check again later if the metric or information you were looking for is missing.

The JRC does not take any responsibility for the correctness of available data and the further use of the downloaded data.

The project



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Latest News

<http://db-airmontech.jrc.ec.europa.eu>

The FP7 AirMonTech project aims at improving the use, data quality and comparability of air pollution measurements. Within this project the AirMonTech database has been built. This database collects, organises and stores all relevant documents and data related to recent and new generation technologies for air pollution monitoring, for example performance, tests, operating procedures, manuals, etc. In this way, the database offers a unique source of knowledge for all stakeholders, such as monitoring networks, NGOs, manufacturers, developers, policy advisers and all other interested in air quality monitoring.

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Disclaimer

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“How to use the database?”

For an easy access, a user-friendly web application has been developed, which translates users' actions into commands performed over the system. It allows users to download documents related to air pollution monitoring, to search the database with the help of predefined filters (based on specific criteria assigned to the documents), to perform a full-text search both in the database and in the physical files.

“What can be found in the database?”

End users can search through a well-organized source of information related to air pollutants (specific and general information), metrics concerning the pollutant (e.g., mass concentration, number concentration), measurement techniques related to the metrics, instruments and/or technologies available to measure these metrics and finally standard operation procedures for the different technologies and equivalence/type approval tests (when available). Together with the editors and supervisors, external experts are invited to provide feedbacks about the contents introduced in the database. A dedicated area of the database manages feedbacks sent among editors, supervisors and external experts. For examples of what can be retrieved from the database, have a look at the tables below.

Pollutants/METRICS
Ammonia
Ammonium
Benzene
Black carbon
Calcium
Carbon monoxide
Chloride
Magnesium
Nitrate
Nitrogen dioxide
Nitrogen monoxide
Nitrogen oxides
Ozone
Particle number concentration
Particle shape, morphology
Particle size distribution
Particle surface concentration
PM Elemental carbon
PM Mass concentration

Document type
Application sheets
Directives and regulations
Full Equivalency test report
Instrument brochures
Instrument intercomparison raw data
Instrument intercomparison reports
Instrument manuals
Instrument specification sheets
Metric background information
Metric measurement technologies overview
Metric measurement technology information
Other official reports
Partial Equivalency test report
Presentations
Round-robin-test reports
Specification sheets
Standard operating procedures
Standard operating procedures - Model
Type approvals

“How to participate in the database?”...

You are invited to have a look at the database and to let us know if essential information is missing. The process of storing relevant documents in the database is a continuing process. If you are aware of relevant documents not included in the database yet, please send us your suggestions by e-mail: info@airmontech.eu.

The database is hosted and maintained by JRC (Ispra, IT). JRC is open to any collaborations related the content of the database.

AirMonTech is an EU Coordination and Support Action compiling information to harmonize current air pollution monitoring techniques and to advise on future urban air monitoring technologies and strategy. AirMon Tech is gathering information on instrument performance, test results, equivalence demonstrations and standard operating procedures (SOPs), and processing them into specifically designed freely accessible database. Particular emphasis is placed on methods for real-time monitoring of gases, particles and particle-related proxy variables with relevance to human health. The extended focus of urban air quality monitoring is currently envisaged to lead to closer links of monitoring with exposure and possible health effects in the population.

PARTNERS

