

Managing air quality measuring networks

AIR QUALITY

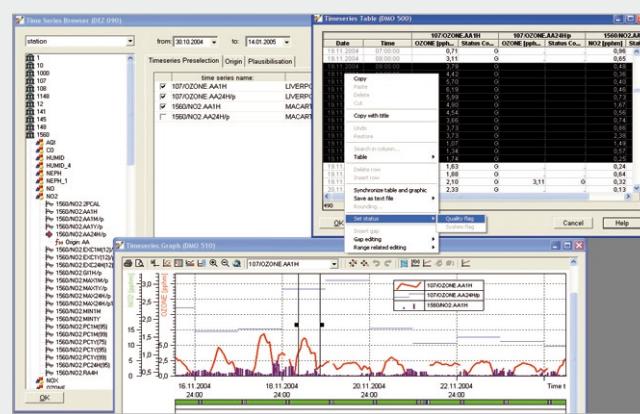
AquisNet (Air Quality Information System and Network), the KISTERS software for the management and control of air quality measuring networks and the evaluation and forwarding of the resulting data, provides an ideal solution to the many challenges in this demanding field. AquisNet offers functions for both immersion and emission measurement, and rises to challenges presented by both small measuring networks right up to networks with around 1000 stationary and mobile measuring stations. It is currently in active use by both public institutions (e.g. national and international federal and state authorities) and companies, and has proven its worth many times over. Only a profoundly flexible, configurable and extensible software product such as AquisNet is capable of fulfilling such a wide range of challenges.

Its modular structure allows AquisNet to be adapted to suit your individual needs. Our employees are experts from the air quality measurement and IT fields, and would be pleased to help you choose the optimal software solution for your requirements. On request, we can provide AquisNet as a complete package for measuring network control centres and the individual stations (if necessary also with suitable IT hardware), or as a reduced software solution for specifically requested functionality, such as only for evaluation, station control or control center management. The KISTERS portfolio ranges from consultation and planning, to full operation and maintenance of a measuring network for air quality monitoring, right through to user orientation and training.

Technologically, AquisNet is based on time series management, which has already proven itself in other KISTERS software solutions for a total of around 500 customers. Despite the large measurement datasets and complex evaluations and calculations, AquisNet remains easy to use and can present data in a clear and readable fashion.

AquisNet functions

AquisNet is more than just a mature and capable software solution, it is also undergoing constant development. This means that its broad range of functions can be adapted to meet current challenges and any desired changes. Because all our customers run the same version of the software, there are no version-specific extensions, and every customer benefits from every update.



Data management

- Measuring and calibration data
- Basic data
- User data
- Station data and station groups
- Aggregation templates

Calculation

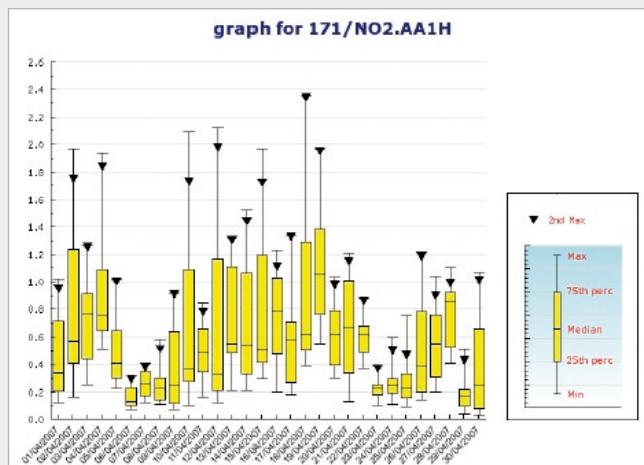
- Arbitrarily cascadable aggregations (min/max, sum, percentile, mean value, exceedance frequencies, ...)
- Plausibility checks (relative/absolute standard deviation, 2-way plausibility check, ...)
- Correction (interpolation)
- Free and predefined evaluations

Time series management

- Graph and table time series editor
- Interactive time series manipulation
- Simultaneous editing of multiple time series
- Time series browser
- Time series history

Reports

- Predefined and user-defined reports
- Basic data reports
- Measuring data reports
- Report storage
- Report scheduler
- Report formats: HTML, PDF, CSV, XLS



basic data of station: PALM BEACH	
Station Short Name	108
Station Long Name	PALM BEACH
DDP name	108
EU Code	
Station Type	Neighbourhood
Operating Time	since // :
City	PALM BEACH
ZIP code	
Station District	
Street, Nr.	Barrenjoey Head,
Remark	
Longitude (degree, min., sec.)	
Latitude (degree, min., sec.)	
Meters Above Ordinance Datum	10 m
Easting	
Northing	
Status	05/09/2000 24:00
Last Changed by	angril
Measured Parameters	from - to
NOX	29/01/1995 24:00 - 26/03/1995 22:00
NO	29/01/1995 24:00 - 26/03/1995 22:00

Display

- Zoomable tables
- Configurable graphs
- Time series
- Wind rose
- Pollutant concentration rose

Data import, export and forwarding

- Import from a range of sources (stations, laboratories, other measuring networks, interval measurements)
- Export of time series and basic data
- Report forwarding by FTP, e-mail, fax, SMS or printer

AquisNet - software

AquisNet consists of five fundamental software modules.

- AquisNet system core
- AquisNet DMO (data management office)
- AquisNet REP (reporting)
- AquisNet DV (data forwarding)
- AquisNet DMS (data management station)

A functional system can be built by combining just two of the modules, namely the system core with either AquisNet DMO or AquisNet REP. AquisNet DV and AquisNet DMS, used in individual metering points outside the master station, are optional components.

The modularity of AquisNet provides customers with a range of options: AquisNet as a complete package may be deployed both in the measurement master station and in individual stations.

Reduced solutions may consist of only the software running at the measurement master station (Core, DMO, REP, DV), or of module combinations selected to provide specific functions.

Customer Benefits

Flexibility and Extensibility

AquisNet is an extremely flexible software solution which can be easily adapted to meet your requirements. For instance, AquisNet calculations, evaluations and validations may be freely defined in addition to the predefined evaluation functions. We are also in a position to provide extension modules, functions (calculations, plausibility checks, import validation procedures), data exchange formats and more for the software upon request.

Individually combinable modules

AquisNet consists of individual software components which may be combined with one another as necessary. This means our software solution can adapt to meet a range of challenges. Our experts would be pleased to consult with you on the combination of modules which will suit your needs best. You're on the right track with AquisNet – even with respect to the future, as adding or extending the initially deployed components is not a problem.

Proven technology and broad functionality

AquisNet works with the well-known KISTERS time series management technology, forming the basis of its many functions. This technology has been proven not only in AquisNet but also in other KISTERS software solutions, in active use under around 500 customers. The AquisNet calculation functions, consisting of aggregations and plausibility checks for example, generate all values relevant to you. Data import and export, data management, reports, editors and editing history are just some of the functions AquisNet offers.

Rapid access to information

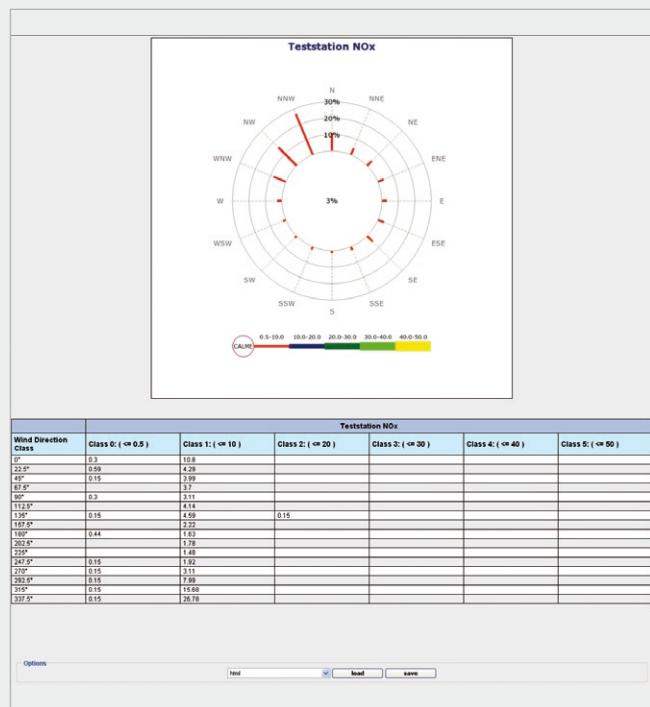
The collection and evaluation of increasingly large measurement datasets and complex calculations are carried out extremely quickly by AquisNet. This means that AquisNet is capable of controlling even time-critical applications and alarms. In stations, AquisNet is capable of recording, evaluating and displaying/forwarding relevant information based on data recorded in 5-second intervals.

Easy operation and clear display

Large datasets, complex calculations and multifaceted data dependencies are normally difficult to display in a clear manner. AquisNet is the ideal solution: Combining zoomable tables and individually configurable graphs means that all relevant information (e.g. quality status, editing history, remarks on measuring areas) can be communicated quickly. The graphical user interface allows interactive data manipulation, which represents an additional time bonus for the user.

Competent consultation

Any good software solution should also include expert consultation and comprehensive service. For us, quality consultation services require doubly qualified employees: not only do they understand the AquisNet software, they are also specialists in all aspects which need to be considered in air quality measurement, and have years of experience behind them in both fields. Our services include planning your measuring network, consultation in the choice of individual software modules, integration, configuration and maintenance of AquisNet and user orientation and training.



AquisNet

AIR QUALITY MANAGEMENT

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