References:

Air quality monitoring software

EXCLUSIVE FEATURES:

Compliance with:

- ISO 7168
- AFNOR NF X 06-044 norm
- European Directive 2008/50/CE

- Acquisition, processing and display of any type of environmental data: gas and dust analysers, meteorological sensors, samplers, ...

- Advanced tools for statistics, validation and reports

- Advanced control of the measurement chain

- Exclusive system of automatic data validation

- Input and import of analysis results

- Traceability and high availability of the raw and validated data

Required configuration and technical specifications:		Optional modules:	
Operating systems	Windows, Linux	XR SPC	Control charts management
Workstation	Windows	XR DATAEX-Impact	Generation of information files adapted to the atmospheric dispersion models
Architecture	Multi users and multi workstations	XR Web	Web access to data and information broadcast
Languages	French, English, Spanish, other languages upon request	XR CMMS	Computerized Maintenance Management System
Number of workstations: unlimited, according to the type of license			

Gas-Detection

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Data acquisition:
- Data acquisition from analyzers and other devices via digital or analog links
- Calculations (scaling, adjustment, linearization, normalization); aggregation of the resulting data on various time period to determine averages
- Management of failures, thresholds overruns and alarms

Data management:
- Automatic sending of an email, SMS, fax, etc. on failures or thresholds overruns
- Communication management between the software and the data acquisition systems
- Assignment of a quality code for raw and mean data (e.g. maintenance, calibration, drift, alert, failures...)

Supervision:
- System status display (failures, alarms, thresholds overruns)
- Multi-window display (slideshow)
- Data display: raw, means, trends,...
- Supervision of configured parameters, remote monitoring of analyzers
- Real-time data follow-up, interactive set-up, calibration and automatic results monitoring, remote testing

Report management:
- Import of laboratory data, automatic or manual data export in various file formats: Excel, XML, HTML, PDF, CSV
- Automatic edition of compliant and customized reports according to local authorities' requirements

Data validation:
- Tables and/or charts data display
- Several validation levels with different level rights and logging
- Actions traceability (data validation, invalidation, adjustment)
- Quality codes for the data (maintenance, calibration, drift, alerts, failures...)
- Automatic statistical analysis on previous pollution episode

System management and security:
- Database: size control, automatic back-up, data archiving, cleaning and restoring
- Detailed management of access rights for different user profiles. System logon via identification
- Logging of any actions either carried out by the users or automatically operated by the software
- Automatic U.P.S. management in case of power failure
- Reporting on system operations (failures, communication status, etc.)

Automatic data validation:
- Automatic data validation in real time
- Set of customizable data validation rules
- Backup of the automatically validated data until final inspection
- Traceability of the automatically validation actions

Data control and quality assurance – optional:
- Control charts management
- Automatic management of calibration charts
- Automatic analysis and results checking
- Three different control charts available simultaneously and automatically for each analyzer : CUSUM (NFX06-031-4), EWMA (NFX06-031-3) and Shewart (ISO 8258)
- Graphical display of monitor calibrations and historical data

Maintenance planning and management - optional:
- Schedule and track of maintenance tasks adapted to the Air Quality Monitoring Networks
- Automatic generation of working orders and on-site interventions follow-up
- Spare parts stock management

Data display on the web with the XR Web module - optional:
- Software suite for interactive data display on the web (maps, tables, charts)
- Data export to existing web sites

XR Software
- Database management
- Backup management
- Local or remote communication
- Message sending...

XR WorkStation
- Supervision
- Settings (alarms, trends, measurements,..)
- User profiles management
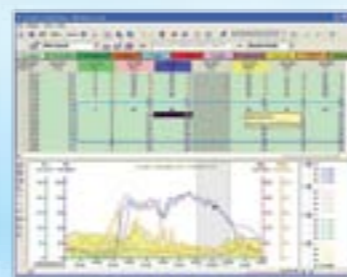- Data display
- Reports...

Data acquisition and multi-window display of parameters in real-time

On-map interactive display of the monitoring stations

Computerized maintenance Management module adapted to the Air Quality Monitoring Networks

Data validation module

Customizable reports management, automatic or manual editing

Control charts