XR® is a software suite for the continuous management, control and monitoring of a network of fixed or mobile stations measuring air quality using various measuring instruments.

XR® benefits from many years of experience in the field of air quality and environmental data processing as well as the latest technological advances in terms of communication (IoT - Internet of Thing) and data centralisation in a cloud.

The XR® suite includes unique dedicated tools and modules to qualify and process data from instruments.

With its unique feature like the automatic data validation module and the QA/QC tools, XR® is the most advanced software suite for your data management.

- ISO 7168 compliant data exchange system
DATA ACQUISITION
- Data acquisition from analyzers and other devices via digital or analog inputs
- Calculations (scaling, adjustment, linearization, normalization); aggregation of the resulting data on various time periods to determine averages
- Management of failures, thresholds overruns and alarms

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

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 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.)

QUALITY ASSURANCE AND QUALITY CONTROL:
- 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

DATA ACQUISITION
- 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

DATA VALIDATION (MANUAL)
- 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 episodes

DATA VALIDATION (AUTOMATIC)
- 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 ACQUISITION (MANUAL)

DATA ACQUISITION (AUTOMATIC)

REPORT MANAGEMENT:

SYSTEM MANAGEMENT AND SECURITY:

QUALITY ASSURANCE AND QUALITY CONTROL:

DATA ACQUISITION:

SUPERVISION:

DATA VALIDATION (MANUAL):

DATA VALIDATION (AUTOMATIC):

DATA ACQUISITION:

REPORT MANAGEMENT:

SYSTEM MANAGEMENT AND SECURITY:

QUALITY ASSURANCE AND QUALITY CONTROL:

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DATA VALIDATION (MANUAL):

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SYSTEM MANAGEMENT AND SECURITY:

QUALITY ASSURANCE AND QUALITY CONTROL:

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QUALITY ASSURANCE AND QUALITY CONTROL:

DATA ACQUISITION:

SUPERVISION:

DATA VALIDATION (MANUAL):

DATA VALIDATION (AUTOMATIC):