

XR Premium

Environmental Quality Monitoring

The XR Premium software is the control tower for environmental quality monitoring system.

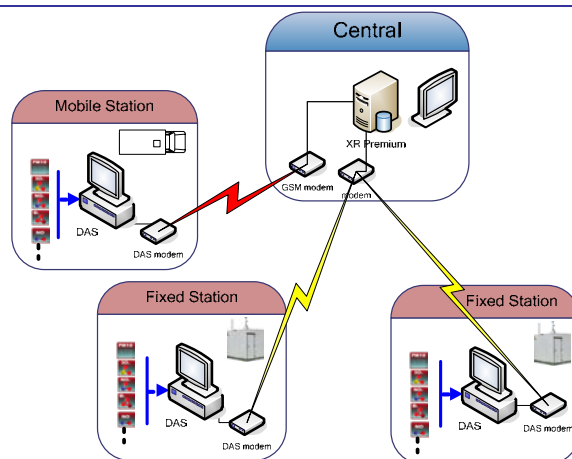
XR Premium software:

- centralizes all data delivered by measuring devices;
- integrates the data in an information processing system in order to display it in a way facilitating their consultation and treatment;
- controls, configures and pilots sets of measuring devices (Data Acquisition Systems, analysers, communication systems);
- allows the technical follow-up of all installations;
- ensures the traceability of data, events and technical information;
- controls data quality and guarantees its integrity;
- detects and signals any event (dysfunctions, pollution episodes, etc.);
- possess a set of tools for data storage, process, presentation and broadcast.

XR Premium software is an element of the XR software range dedicated to environmental data management.

Perfectly integrated with the measuring equipment: XR Premium ensures follow-up and parameter setting of any element of a measuring equipment.

iséo provides a large range of software and Data Acquisition Systems to manage environmental monitoring, to integrate any instrument and to broadcast environmental information.

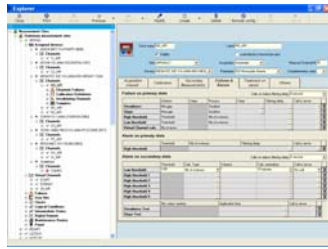


XR Premium software in an Air Quality Monitoring System

Main features

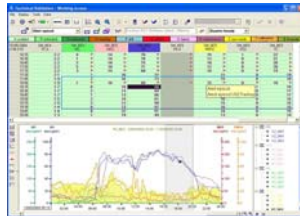
Communication with Data Acquisition Systems

- Communication capacities over Public Switched Telephone Network, GSM, GPRS, leased line, ADSL or Ethernet (TCP-IP);
- Management of telephone lines groups;
- Complete parameter setting and remote control of the Data Acquisition System;
- Programmable periodic calls to Data Acquisition Systems;
- Reading of the incorporated data, the log book, the calibrations logs, the configuration and the acquisition system status;
- Receive and decode calls from the Data Acquisition Systems when a failure or an over-threshold occurs;
- Automatic warning by mail, fax, SMS, voice, etc;
- Graphic follow-up in real time of acquisition data and of all the internal parameters of the Data Acquisition System and of the measuring devices.



Data centralization and visualization

- Automatic archiving of data in the XR database;
- Aggregation of data hourly, daily, monthly, etc;
- Cartographic representation with animation capability;
- Data display in table or graphic form;
- Quality code affected to each data display. (e.g.: for data sampled during maintenance of an device or calibration, drift, etc);
- Wind and pollution roses;
- Air Quality Index;
- Constitution of data sets (by pollutant, geographical proximity, etc). These sets may then be used for any data browsing operations for data processing carried out by XR Premium;
- Capability of manual data entry, imports and manual or automatic exports.



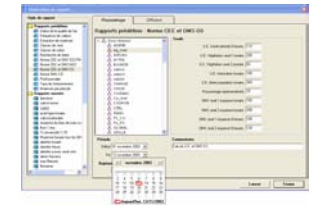
Data Control and data validation

- Control of the automatic calibrations carried out by the measuring device with follow-up of the temporal evolution of calibration results;
- Visualization of the history of the data to be validated;
- Ability to correct data
- Visualization of the quality codes of each data;
- Visualization of control charts and charts of follow-up (with the XR-SPC module for Statistical Process Control);
- Visualization of the sampled values, produced by the devices, constituting the data to be validated.



Data Processing and report printing

XR includes powerful tools to carry out calculations on the whole of the data stored in its database, with many possibilities of edition of the results for these reports: screen display, automatic printing, mail or fax sending, etc.



System administration and security

XR Software includes many services to guarantee a permanent operation of the system and to ensure the data security:

- Database: auto-backup and restore;
- Powerful management of user rights for each kind of user, connection to the system after identification;
- History file for of all users actions and for all operations carried out by the software;
- Uninterruptible power supply (UPS) management;
- Reports delivering about the system operation (failures, communications status, etc.);
- On-line Help.

Technical features

Architecture and Requirements

Structure	Client-Server Architecture
Database	Included ORACLE™ Database
Basic Requirements	Windows XP
	Pentium 2.5 GHz
	1 GB RAM, 120 GB hard drive DVD RW

Additional Modules

XR SPC	Statistical Process Control module
XR CMMS	Computerized Maintenance Management System
XR Web	Web Site Development Toolkit
XR MCM	Measurement Campaigns Management



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