



Instrumentação e Sistemas de Automação, Lda

ambiente



Air Quality and Meteorologic Data Collecting and Processing System

**Built specifically for the management of meteorological stations networks and air
quality measurements**

Introduction

ATMIS was specifically built and developed for the management of meteorologic and air quality networks in close cooperation with local Environment Agencies.

In general terms, ATMIS is an open architecture application based on standard protocols and interfaces that stores gathered data in a relational database. These data, after processed, can easily be shared with other applications.

ATMIS also includes a vast lot of tools to aid in the management of large networks allowing scheduled data collection of each station and the elaboration of network reports.

ATMIS is an application developed with VisualC++ that runs on Windows 9x/Me/NT/2000.



ATMIS – Data Gathering and Processing System

Main Features

- Possibility to configure each station according to a vast set of parameters;
- Possibility to record maintenance information and other observations;
- Management of the connections using Windows installed modems;
- Possibility to configure scheduled data gathering;
- Data is stored in a relational database;
- Possibility to define the acquisition period of each channel for data processing;
- Possibility of (in)validation and deletion of gathered data;
- Possibility of validation of all the data on the measurement unit and setting the last valid data;
- Enables data and analyser status visualization (measurement, alarm, zero, calibration) every 60 seconds (on time connection);
- Enables analyser configuration, namely, the activation of the zero checking and allows to calibrate and program the zero and calibration cycles of each analyser;
- Maintenance functions to check the analysers performance;
- Enables the analysis of data by graphic and table consulting according to the user;
- Enables the creation of reports and graphics / tables for different periods of time (15 min, 1 hour, 1 day, 1 week, 1 month and 1 calendar year);
- Enables the export of data to other applications (Excel, Lotus, etc) for later treatment;
- Calculation of statistic reports according to communitary air quality law:
 - . (hourly, monthly, annual, 8 consecutive hours, etc, averages;
 - . Maximum and minimum percentages;
 - . Efficiency rates;
- Vectorial data processing including compasses and pollution roses graphs;
- Over-range reports including time of occurrence, duration, maximum concentration;

