

OMC-Data-On-Line

How it works

OMC-Data-On-Line is an easy to use software platform that standard consists of two programs, OMC-data-On-Line and one Data-Collector.

Field data in most cases is gathered by data loggers. On preset times the data logger will send data to the OMC-Data-On-Line platform. Data can be send in many ways like RS-232, TCP/IP, FTP, Email, through PSTN or GSM. Our MultiMetProbe OMC-410 is able to send emails to OMC-Data-On-Line while our OMC-045-II logger is using FTP as well.

A Data Collector that is always active on the background notices this incoming messages and puts the data into the SQL-Database.

Supported database engines are;

- Ms-Access (default)
- SQL-Server
- Oracle (9i or higher)

After the data is stored in the database, the data can be accessed using OMC-Data-On-Line. The universal OMC-Data-Collector for four field stations is standard included when ordering OMC-data-On-Line.

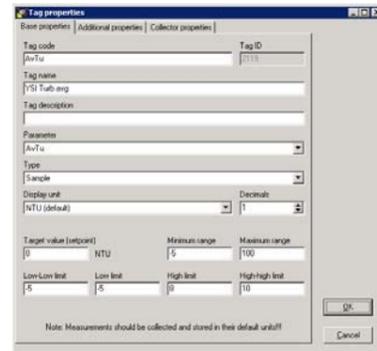
With the OMC-Data-Collectors it is possible to collect the data from all Observator Data loggers, and Signal conditioning units.

Data-Collectors are also available for standard signal formats used in the industries Observator is active in, like the NMEA protocol, ASCII, YSI, Sontek, Modbus and Profibus.

One Data Collector can deal with four field station, so when you use 16 field stations, 4 Data-Collectors are required.

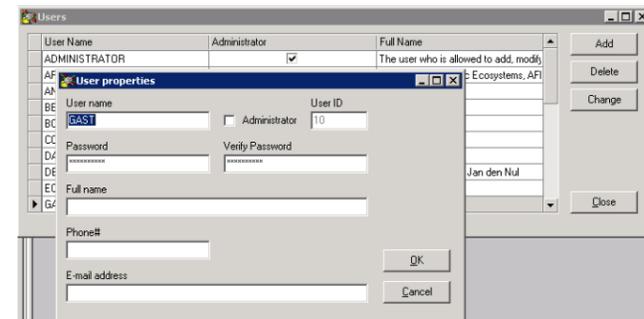
New field stations are automatically detected by the Data-Collectors. A new location will be generated by OMC-Data-On-Line and all data will be stored in the data-

base. The user can change the location in the tree by using drag and drop. It is also possible to change the name of the field stations or tags if required, of course whiteout losing data. This means that it is not necessary to reconfigure OMC-data-On-Line every time a new substation is installed. After installation is done the field data will be available in OMC-Data-On-Line before you have reached the office.



In the tag definition it is also possible to configure alarms. A Low-Low, Low, High and High-High limit can be set. If a value exceeds these limits it will be shown in Yellow when the Low or High limit is exceeded. When the High-High or Low-Low limit is exceeded the value will be displayed in red. When a map is used it is also possible to change the colour of the location on the map when an alarm limit is exceeded.

When OMC-Messenger is used alarms can trigger the alarm-handling module.



Access Control

Four users within a LAN environment can use the standard version of OMC-Data-On-Line simultaneous. Extended versions are available for 8, 16, 32, 64 and an unlimited amount of users.

Access control can be configured for all locations. There are three access levels;

Access denied

This means the selected user can not access the selected location.

Viewing Permitted

This means the selected user can view the data of the selected location, but is not allowed to change settings of the tags like alarm levels and ranges.

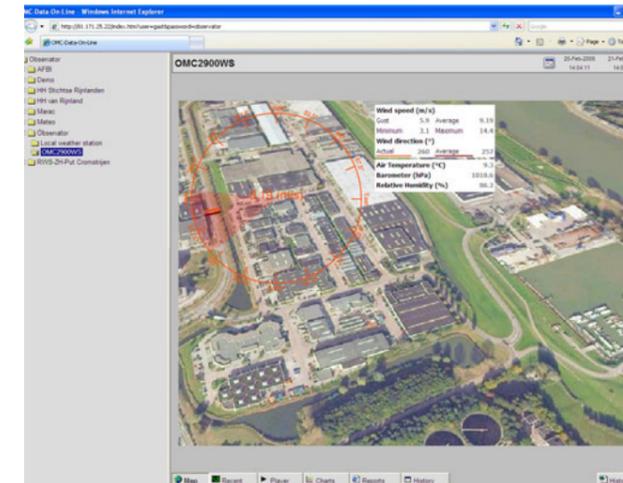
Editing Permitted

This means the selected user can view the data of the selected location and is allowed to change settings of the tags like alarm levels and ranges.

Only an Administrator has full access to all locations and can add and edit users.

USING OMC-DATA-ONLINE

If a station is selected while OMC-Data-On-Line is in viewing mode, a startup screen appears which normally contains the map of the station. On this screen one or more selected parameters are shown.

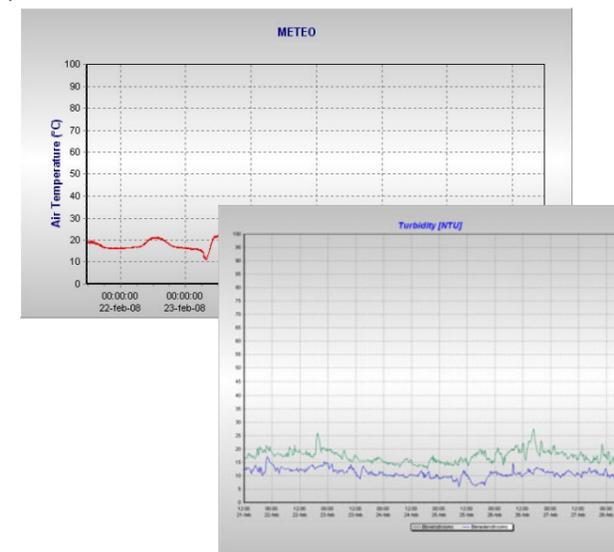


On the bottom of this screen several buttons are shown.

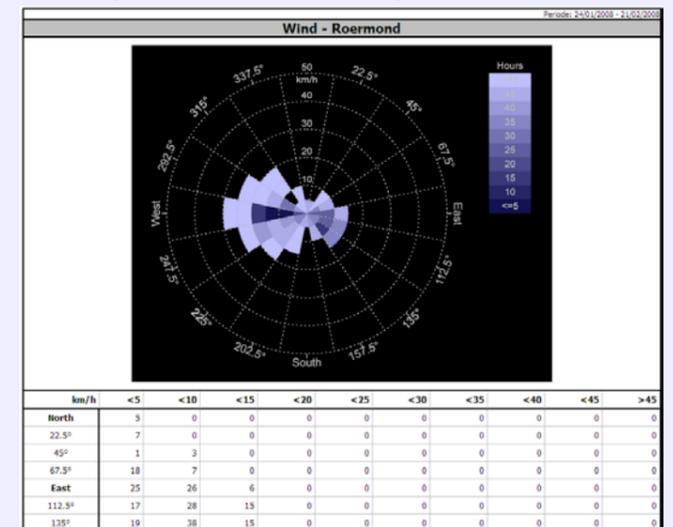
Using the recent button The 'Recent'-page shows the most recent values of the tags associated to the selected location in tabular form. This sheet can be printed or saved or e-mailed as an Excel compatible sheet.

If graphs are assigned to the station and the chart button is used a graph appears over the selected time frame.

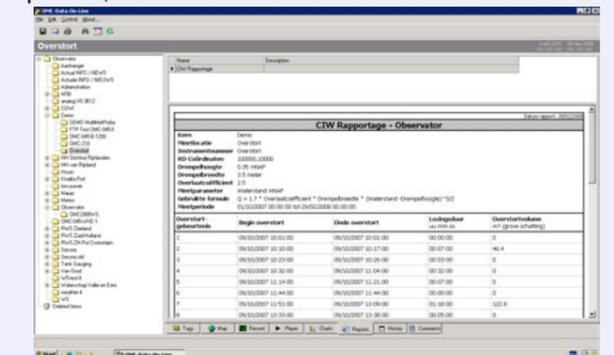
In the design function the type of graphs may be defined. Please note that a slight knowledge of SQL might be required.



Within the design mode reports may also be defined. From simple reports ready to be sent by email up to the most sophisticated customized reports.



You can define several reports per location. The report engine makes use of modern technologies like: SQL, XML, XSLT and scripting (JavaScript/VBScript), making the engine very powerful and useable to generated almost any kind of report, from simple flat-text CSV files to advanced reports in HTML or XML format. When creating a new report, OMC-Data-On-Line generates a default report based on the tags associated to the selected location. The default report displays a summary (Count, Min, Max, Average) over the selected period. Reports can be printed, saved or e-mailed.



With the Player you can playback and forward data in time. The player chart is divided into two vertical parts, which have their own time-axis and their own 'player'-controls. Each vertical part has a left and right Y-axis. For each Y-axis a tag associated to the current location can be selected. Because the same tag can be selected in the upper part as well as in the lower, it is possible to compare data of the same tag in time.