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## **Promis Quick Guide**

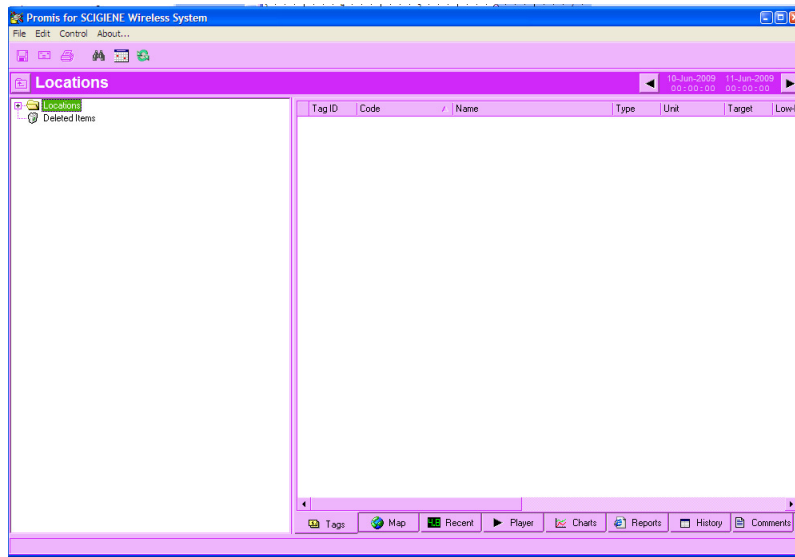
Promis is an application to organize, view and visualize measurement data. For monitoring purposes, for each device, automatically or manually, a tag can be defined. Measurements will be registered to the tags for each device based on this. Data can be printed, saved and emailed in graphical (\*.jpg), tabular (\*.xls), and report (\*.html) form.

### **Operating Promis:**

Once your Wireless Receiving system has been configured and set up to your computer, Promis can be installed to collect, store, and retrieve data to use. Install the software from the CD that has been provided to you. In the auto-run, select start installation, and follow the instructions. When Promis has finished installation, open the software by clicking on the Promis icon. When you open Promis, you are asked to login for the first time with an empty database. You should login with the user name "Administrator" and leave the password field blank.

A screenshot of a Windows-style dialog box titled "Login to Promis for SCIGIENE Wireless System". The dialog has a blue title bar and a light blue background. It contains two input fields: "User" with the text "Administrator" and "Password" which is empty. To the right of the "User" field is an "OK" button, and to the right of the "Password" field is a "Change" button. At the bottom center, there is a "Change Data Source" button.

The next window that opens up is the main platform of the software. The vertical right-hand side of this main window displays a list of the different locations that data acquisition is occurring.



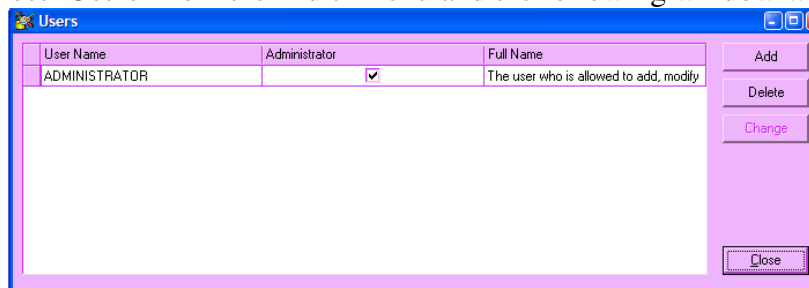
The second window to the right of the Locations window is where all the devices appear with their “Tags”. Also, upon selecting any tab from the bottom bar, that action will be displayed here. The bottom bar includes:

1. ‘Tags’, shows the list of tags associated to the selected location
2. ‘Map’, shows the geographical map, CAD drawing, or picture of the selected location
3. ‘Recent’, shows the most recent values of the selected location
4. ‘Player’, plays back measurements in time
5. ‘Charts’, shows custom defined charts
6. ‘Reports’, shows custom defined html reports
7. ‘History’, shows measurements of the selected location in tabular form
8. ‘Comments’, shows custom defined comments

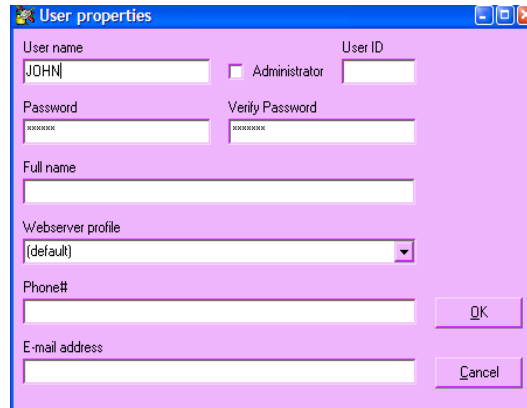
In this manual, only the Tags, Recent, Charts, Reports, and History tabs will be covered. If you would like to learn more about these and other tags, please refer to the main Promis User Manual, available at <http://www.projex.nl/eng/index.htm>.

## **USERS**

Promis knows two types of users; Administrators and View-only users. An Administrator is allowed to configure (on a licensed system) Promis and to view all locations. View-only users are only permitted to view granted locations. The maximum number of users is dependent of your license. The standard license includes the right to define 4 users. To edit users, select ‘Users’ from the ‘Edit’-menu and the following window will pop-up:



A user should have a unique 'Name', which is always in capitals. This is the 'Name' used to login into Promis. When creating a new user, the password will be blank and the user has to change it at first login. If a user forgets its password, an administrator can reset the password.

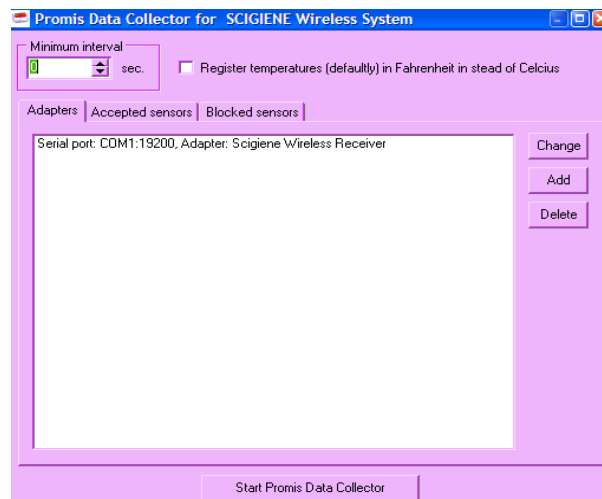


The 'User properties' dialog box contains the following fields and controls:

- User name:** Text field containing 'JOHN'.
- User ID:** Text field.
- Administrator:** Check box (unchecked).
- Password:** Password field (masked with asterisks).
- Verify Password:** Password field (masked with asterisks).
- Full name:** Text field.
- Webserver profile:** Drop-down menu showing '(default)'.
- Phone#:** Text field.
- E-mail address:** Text field.
- Buttons:** 'OK' and 'Cancel' buttons.

### **Start Data Collector:**

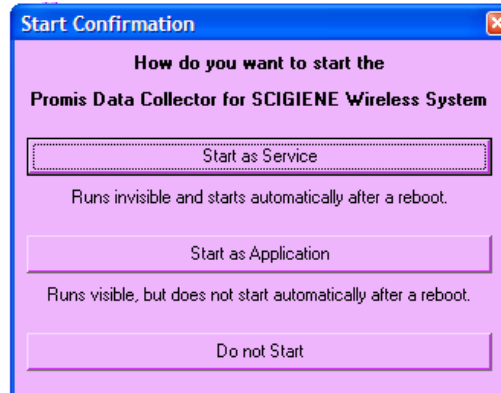
The first step to start the data monitoring, is to activate the Data Collector. From the menu bar, click Control. From the drop-down menu under Control, click “Start & Configure Promis Data Collector for SCIGIENE Wireless System”.



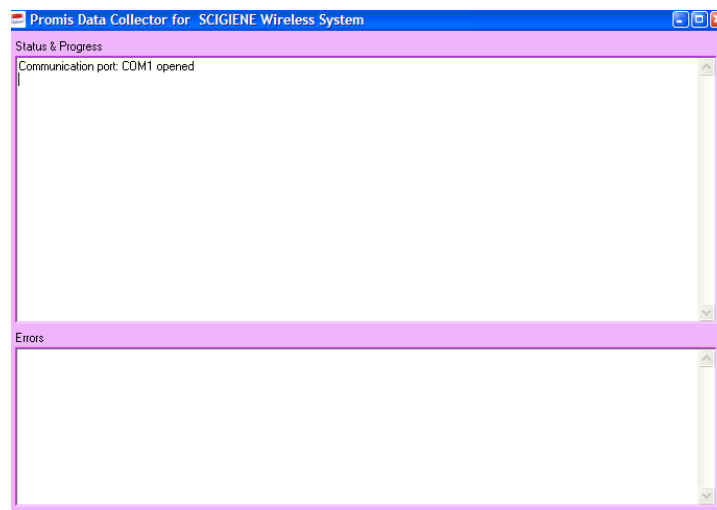
The 'Promis Data Collector for SCIGIENE Wireless System' window includes the following configuration options:

- Minimum interval:** A numeric field set to '1' with a unit of 'sec'.
- Register temperatures (defaultly) in Fahrenheit in stead of Celcius:** Check box (unchecked).
- Adapters | Accepted sensors | Blocked sensors:** A tabbed interface. The 'Adapters' tab is active, showing a list with one entry: 'Serial port: COM1:19200, Adapter: Scigiene Wireless Receiver'.
- Buttons:** 'Change', 'Add', and 'Delete' buttons are located to the right of the list.
- Start Promis Data Collector:** A button at the bottom center of the window.

**Note:** If the information listed in this window is not accurate, click to highlight the incorrect option. From the buttons on the right, select “change” to modify TCP/IP Address or Serial Port to their correct values and click Ok to save these changes. Should you not know what the configuration for your receiver is, contact the provider.



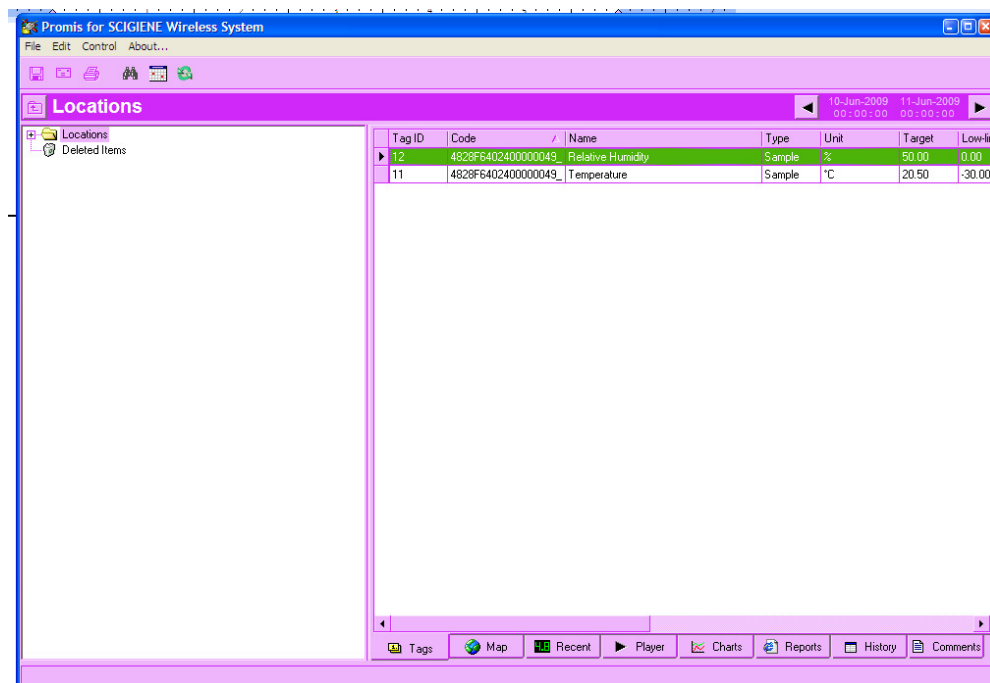
From the new window, select the proper Adapter, and click “Start Promis Data Collector” at the bottom. A message will appear asking you whether you really want to start this collector, say “Yes”. A “Start Confirmation” window will open, asking “Start as Service”, “Start as Application”, or “Do not start”. Only when you click “Start as Application” will a new window open. Otherwise, when you click “Start as Service”, the data collector will run in the background and no window will open. Once done, a message will inform you that the connection is established and the software will start automatically to read all the devices that are communicating with the receiver and display them by their Serial Numbers on this window. If the connection for some reason has failed, check the connection between the receiver and the computer.



The above feature keeps track of the communication between the Promis and your receiver. Any errors are also displayed in the box. If you would like to, you can make it run in the background so it will not be noticed. Click X on the top right-hand corner, and click “No” to iconize this window. At any time, data collection can be halted by selecting “Stop Promis Data Collector” from the Control menu.

### **Monitoring and Features:**

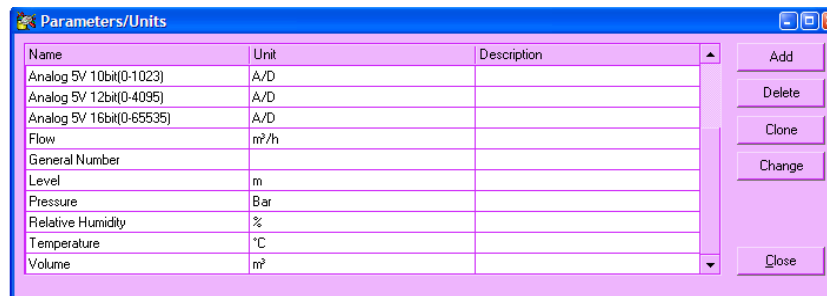
At this point, the Promis is continuously collecting and storing data in its database. To access devices that are being monitored, on the main platform, click “Locations” and select “Tags” from the bottom bar.



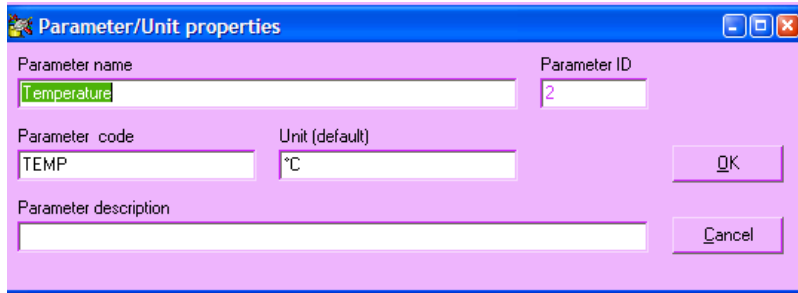
Now in the main window, you can see those devices; in the example above, a Relative Humidity Sensor, and a Temperature Sensor are displayed. Below, different features of the software are introduced. Additional instructions for defining locations and others can be accessed from the Main Manual at <http://www.projex.nl/eng/index.htm>.

### **- PARAMETERS/UNITS:**

Parameters can be used to line-up similar tags with a common name and a common unit. Assume you have to measure a flow at several locations. In this case you could define a parameter named 'flow' with unit 'm<sup>3</sup>/h'. For each location you define a measurement tag for flow registration and you associated all these tags to the same parameter. To edit parameters, select 'Parameters/Units' from the 'Edit' menu, and the following window will pop-up:



A parameter should have a unique 'code', 'name' and a 'unit'.

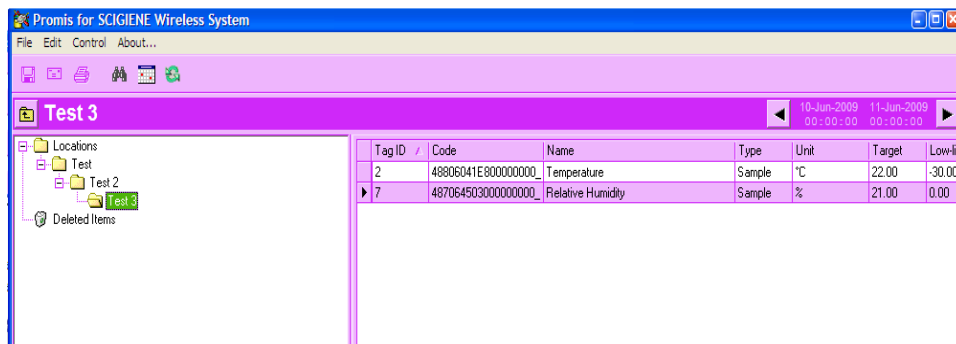


The 'Parameter/Unit properties' dialog box contains the following fields and buttons:

- Parameter name:** Temperature
- Parameter ID:** 2
- Parameter code:** TEMP
- Unit (default):** °C
- Parameter description:** (empty text box)
- Buttons:** OK, Cancel

## **- TAGS:**

You can define several tags per location. If you require more information please see the Promis main manual mentioned in the previous section.



The main window shows a tree view on the left with 'Locations' > 'Test' > 'Test 2' > 'Test 3' selected. The right pane displays a table of tags for 'Test 3'.

Tag ID	Code	Name	Type	Unit	Target	Low-lt
2	48806041E800000000	Temperature	Sample	°C	22.00	-30.00
7	487064503000000000	Relative Humidity	Sample	%	21.00	0.00

To define a new tag, select 'New tag' from the 'Edit->Tags' menu or from the menu that pops-up when you click the right mouse button. To edit an existing tag, select the tag from the 'Tags'-list and select 'Properties' from the 'Edit->Tags' or pop-up menu. To delete an existing tag, select the tag from the 'Tags'-list and select 'Delete' from the 'Edit->Tags' or pop-up menu. Deleting a 'Tag' is also possible by 'dragging' the tag to the 'Deleted Items'-location. Deleted tags are transferred to the 'Deleted Items'-location. To delete tags forever, the tags must be deleted from the 'Deleted Items'- location as well. You can move tags to other locations by 'dragging & dropping'.

Tags have certain properties. To see the properties for a tag, right click on the tag, and click "Properties". Basic properties are displayed and explained as follows.

## **Base Properties**

**Tag code:** Usually the serial number by default.

**Tag name:** Each tag has a name. If multiple sensors are being used at the same time, users can input a tag name to allow easy identification of the location of the sensor.

**Tag ID:** The tag ID is automatically generated by Promis.

**Parameter:** A tag must be associated to one of the defined parameters.

**Type:** The type of tag can be one of the following:

Type	Description
<b>Sample</b>	A measurement sample of a continues signal
<b>Counter</b>	A registration of a continuous increasing counter value. E.g. a kWh counter.
<b>Pulse</b>	A registration of a non-continuous signal. E.g. an impact.
<b>State/Step</b>	A measurement sample of a discrete signal.

**Number of Decimals:** Specify the number of relevant decimals to be displayed.

**Target:** The target value (set point) for this tag.

**Range:** Specify the Min. and Max. range for the tag. Measurements outside this range will not be displayed. The Y-axis of the 'Player' will be scaled to the specified range.

**Limits:** If a measurement is outside its limits it will be displayed in red, and if required, an alarm can be passed to the Messenger for further dispatching.

On the top of this window, there is another tab for Additional Properties. There you can specify which options you would or would not like Promis to display. Also, there is a section for setting an alarm system for a tag. For more information on alarming, please refer to Scigiene's user manual for the Messenger Software.

## **Additional Properties**

The screenshot shows the 'Tag properties' dialog box with the 'Additional properties' tab selected. The 'Display options' section has three columns: 'Display on Map-page for', 'Display on Recent-page for', and 'Display on History-page for'. Each column has a list of roles: Anybody, Visitors, Operators, Supervisors, Administrators, and Nobody. In the 'Recent-page' and 'History-page' columns, 'Visitors', 'Operators', 'Supervisors', and 'Administrators' are checked. The 'Alarm Options' section includes a checkbox for 'Alarm if values are out of range' (unchecked), a 'Hysteresis' field set to '0', and radio buttons for 'Alarm if the most recent value is out of range.' (selected) and 'Alarm if the most recent average value is out of range.' Below these are time period fields for 'Calculate average over time period' and 'Alarm if no value is recorded within', both set to '00:00:00'. A 'Name Table' dropdown is set to 'None'. At the bottom, there is a checkbox for 'This Tag is a product density tag and is linked to' followed by a 'Product Tag' field.

Under the Additional Properties tab, users can configure where and for whom they want the information displayed (either the map page, recent page, or the history page). Users can also choose to have an alarm go off if values are beyond a certain range, or when values are not recorded within a particular period of time.

**Collector Properties**

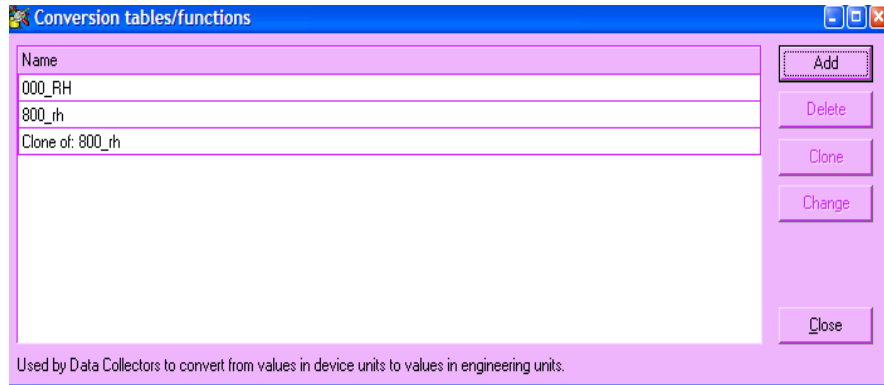
The screenshot shows the 'Tag properties' dialog box with the 'Collector properties' tab selected. The 'Collector tag properties (used by a collector to address this tag)' field contains the text '4828F6402400000049\_TEMP'. Below this is a section for 'Conversion from device units to engineering units' which includes the formulas 'Eng. unit = ConversionTable (dev. unit \* factor + offset) or Eng. unit = ConversionFunction (dev. unit, factor, offset)'. It has three input fields: 'Factor' set to '1', 'Offset' set to '0', and a dropdown for 'ConversionTable() or Function()' set to 'None (1:1)'. There is also a checkbox for 'Reciprope: Eng. unit = conversionTable ((1/dev. unit) \* factor + offset)' which is unchecked. 'OK' and 'Cancel' buttons are at the bottom right.

To adjust the offset of the sensor if suggest on the Scigiene Certificate of Traceability and Calibration, enter the value into the offset box. The offset is an adjustment that can be made to your sensor if the readings during the certification process were off by a certain value. By entering an offset value, your sensor will now give a more accurate reading. This can also be done by creating a conversion table as listed below.

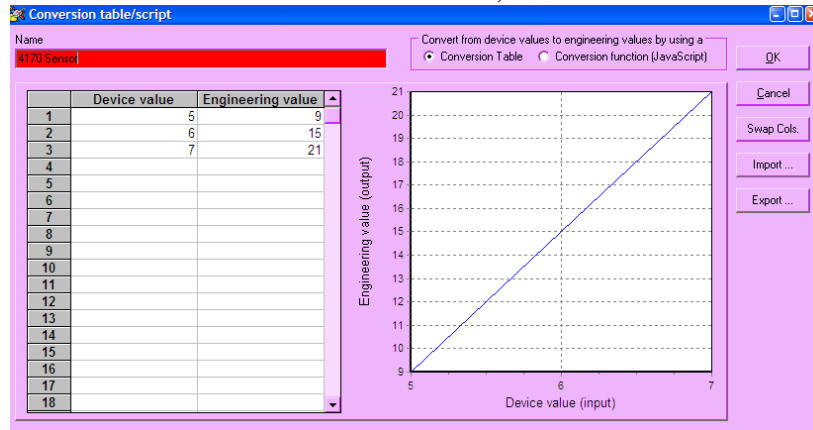
**Conversion Table**



A Conversion Table can be created by the user, allowing them to calibrate the sensor if readings are incorrect. Go to Edit, and select Conversion Tables/Functions. To add a new table, click Add.



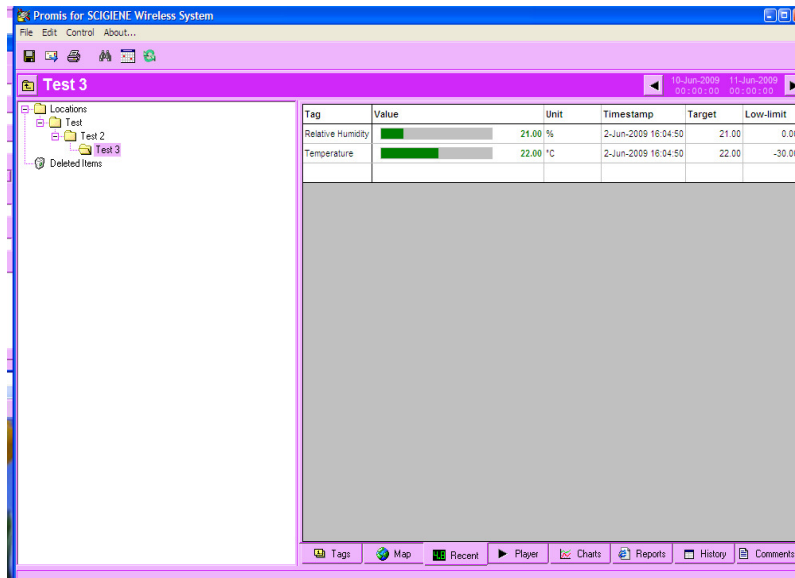
The following window will appear. Give a name to the new table. Here you can manually input the values recorded by the sensor, and the corresponding engineering values that you want the sensor to read instead. When finished, click ok.



After the new table has been added, you can now select the appropriate conversion table listed under collector properties (by right clicking on the sensor in the Tags tab, and selecting the collector properties tab at the top).

### **- RECENT Tab:**

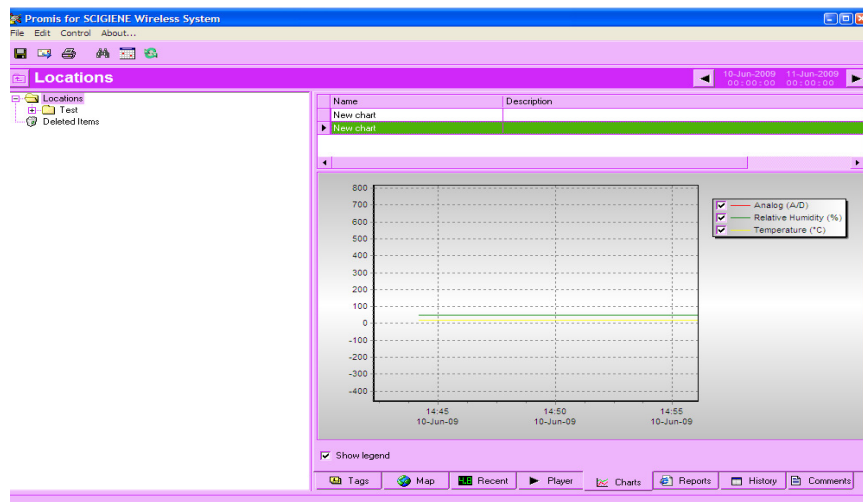
The 'Recent' page shows the most recent values of the tags associated to the selected location in tabular form.



This sheet can be printed or saved or e-mailed as an Excel compatible sheet.

### **- CHARTS:**

The 'Chart'-page is used to show defined charts.



To define a new chart, select 'New chart' from the 'Edit>Charts' menu or from the menu that pops-up when you right click the mouse button. From the window that opens up with a list of tags, select the ones that you would like to graph, click "Close". In the new window, name your chart, edit it and click "OK". Now you can view the defined chart.

To edit an existing chart, select the chart from the 'Charts' list and select 'Properties' from the 'Edit>Charts' or pop-up menu. To delete an existing chart, select the chart from the 'Charts' list and select 'Delete' from the 'Edit>Charts' or pop-up menu. Chart can also be customized and modified from chart Properties (see the Main Manual).

### **- REPORTS:**

The 'Report'-page is used to show defined reports.

**Report properties**

Report name:

Content Type:

Display to:

- ☐ Anybody
- ☒ Visitors
- ☒ Operators
- ☒ Supervisors
- ☒ Administrators
- ☐ Nobody

Description:

☐ Display report as instrument on the Map page

Width:  Height:  Refresh rate:  Sec.

☐ Packaged report (e.g. Office OpenXML)

File name in package:

Parameters | SQL | XML Preview | XSLT | **Report Preview** | Schedule

**Standard Report**

TimeStamp	Analog A/D	Relative Humidity %	Temperature °C
10-Jun-2009 14:40:10	4095		
10-Jun-2009 14:40:30	4095		
10-Jun-2009 14:40:40	4095		
10-Jun-2009 14:40:50	4095		
10-Jun-2009 14:41:00	4095		
10-Jun-2009 14:41:10	4095		
10-Jun-2009 14:41:20	4095		
10-Jun-2009 14:41:30	4095		
10-Jun-2009 14:41:40	4095		
10-Jun-2009 14:41:50	4095		
10-Jun-2009 14:42:10	4095		
10-Jun-2009 14:42:20	4095		
10-Jun-2009 14:42:30	4095		

Refresh

Import ...

Export ...

OK

Cancel

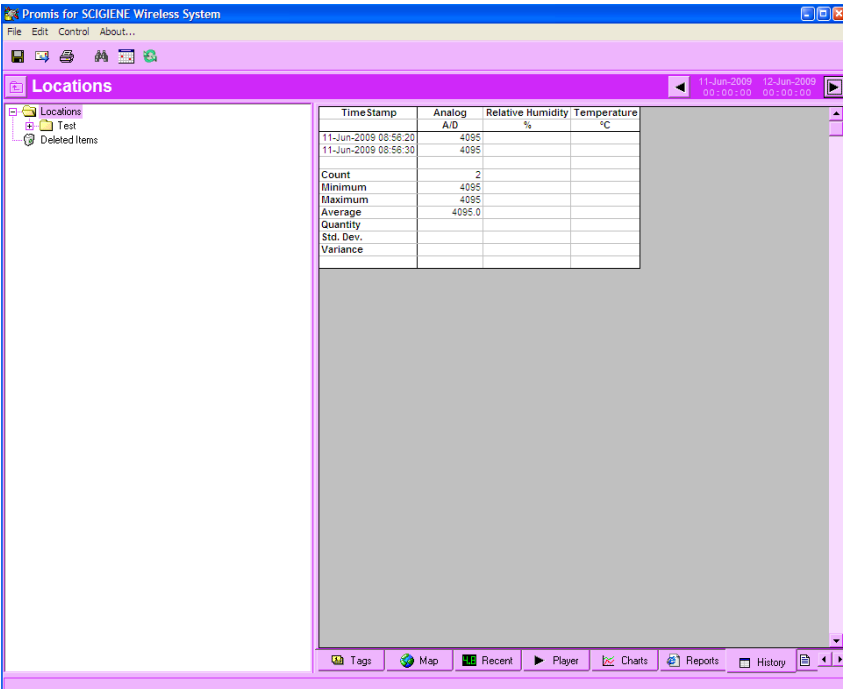
You can define several reports. When creating a new report, Promis generates a default report based on the tags that you select. The default report displays a summary (Count, Min, Max, and Average) over the selected period. Reports can be printed or saved or e-mailed as Html compatible documents. For information on how these can be done, please refer to the main User Manual for Promis mentioned in previous sections.

To define a new report, select 'New report' from the 'Edit>Reports' menu or from the menu that pops up when you right click the mouse button. Select tags that you would like to be reported on the new window and click "Close". A sample of the report style will be viewed. You may name the report or edit the format. Once done, click "OK".

To edit an existing report, select the report from the 'Reports' list and select 'Properties' from the 'Edit>Reports' or pop-up menu. To delete an existing report, select the report from the 'Reports' list and select 'Delete' from the 'Edit>Reports' or pop-up menu.

### **- HISTORY:**

The history tab allows users to view the data collected by all sensors from a specific location. It displays the time interval each reading was collected, the number of readings collected, the maximum and minimum readings and the average value of the readings. If multiple sensors are being used at the same time, the appropriate tag names to each sensor will allow for easy identification.



Additional instructions can be accessed from the Main Manual at <http://www.projex.nl/eng/index.htm>



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