

Manager

User's Guide

0013067/0115

Manager Version: 2.14.09.0

Register Manager Version: 2.14.09.0

Connect Library DLL Version: 2.14.09.0

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Introduction

The JBC Manager program allows you to monitor and configure JBC stations connected to a Windows PC through USB or Ethernet connections.

JBC Manager program uses JBC Connect Library DLL.

For USB connections, the proper USB to UART bridge driver must be installed. This driver is provided with the Manager distribution.

System Requirements

Operating System: Windows XP / Vista / 7 / 8 / 8.1

Processor: Intel i3

RAM: at least 1GB, 2GB recommended

Hard disk: 2MB available hard disk space

Supported Stations

The JBC stations supported by the Manager program are listed below. The minimum station program version needed is showed for each station model.

Station	Minimum program version needed
DM	9996761
DD	9996762
DDR	9996779
DI	9996763
HD	9996764
HDR	9996780
CD/CF	9996765
CS/CV	9996766
CP	9996767
NA	9996768
DDE, HDE, DME, NAE	All

Installing a new USB driver for the new Excellence series stations

The first time you connect a station from the Excellence series to a PC, you must install the required USB driver.

For Windows XP

1. When connecting the USB, the new hardware wizard window appears. Answer "**No, not this time**" to the question about connecting to Windows Update, and press Next.
2. Select the second option: **Install from a list or specific location (Advanced)**, and press Next.
3. Select **Don't search. I will choose the driver to install** and press Next.
4. Click the **Have Disk...** button on the "Select the device driver you want to install for this hardware."
5. Click the **Browse...** button on the "Install From Disk" dialog box that appeared
6. In the Locate File dialog box that appears next, navigate to the folder containing the driver (C:\Program Files\JBC\Manager\drivers\Freescale)
7. Click the **INF** file that displays in the file list and click the Open button
8. Click the **OK** button back on the "Install From Disk" dialog box.
9. Choose the newly added hardware back on the "Select the device driver you want to install for this hardware." window and then click the Next > button.
10. If you're warned about the software for the hardware device not passing the Windows Logo testing, click the **Continue** button.
11. At the last window, check if the driver was successfully installed, and press **Finish**.

For Windows 7/8

1. When connecting the USB, a message appears stating that the system cannot install the driver.
2. Go to the **Start** icon and select **Control Panel**
3. Search for and select **Device Manager** (or Hardware and Sound and then Device Manager, if view Small/Large icons is selected)
4. Search for **MQX VIRTUAL COM** device.
5. Right click on it and select **Properties**
6. Click the **Driver tab** and press **Update Driver**
7. On the "How do you want to search for driver software?" window, click on **Browse my computer for driver software**.
8. In the next window labeled "Browse for driver software on your computer", click on **Let me pick from a list of device drivers on my computer**, located at the bottom of the window.
9. In Windows 8/8.1, select **Show all devices** and click Next
10. Click the **Have Disk...** button located under the text box.
11. Click the **Browse...** button on the Install From Disk dialog box that appeared.
In the Locate File dialog box that appears next, navigate to the folder containing the driver (C:\Program Files\JBC\Manager\drivers\Freescale or C:\Program Files\JBC\JBC Host Service\drivers\Freescale)
12. Click the **INF** file that displays in the file list and click the Open button.
13. Click OK to install the driver.
14. Click Next

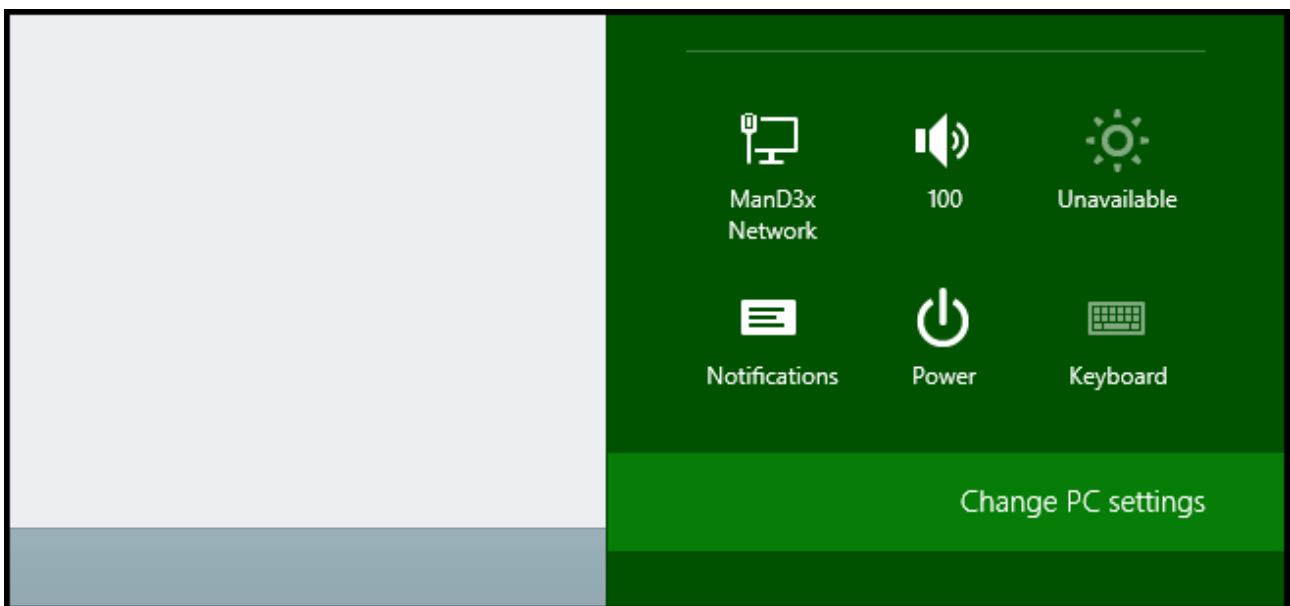
If installation failed on Windows 8

May be Windows 8 blocks the installation of digitally unsigned drivers. To disable driver signature verification on 64-bit Windows 8, do the following procedure and try it again.

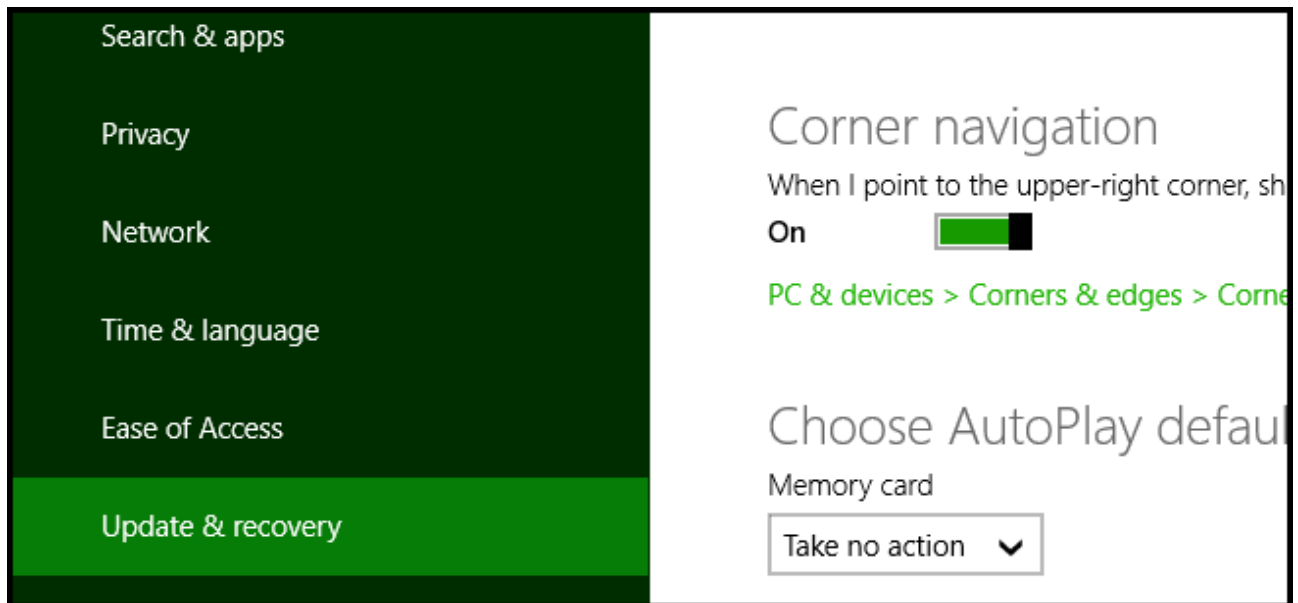
Press the Win + C keyboard combination to bring up the Charms Bar, then click on the Settings Charm.



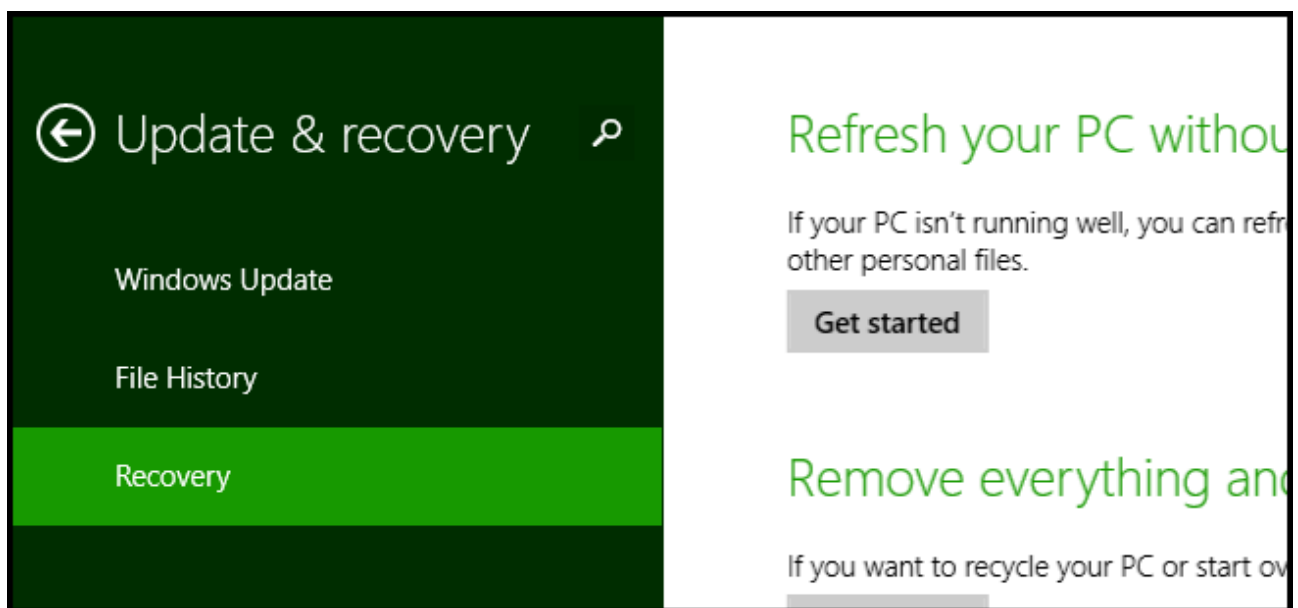
We need to head into the Modern Control Panel, so go ahead and click on the Change PC settings link.



When the Control Panel opens, switch over to the "Update & recovery" section.



Then click on the Recovery option on the left hand side.



Once selected, you will see an advanced startup section appear on the right hand side. You will need to click on the "Restart now" button.

Advanced startup

Start up from a device or disc (such as a USB drive or DVD), change Windows startup settings, or restore Windows from a system image. This will restart your PC.

Restart now

Once your Computer has rebooted you will need to choose the Troubleshoot option.

Choose an option



Continue

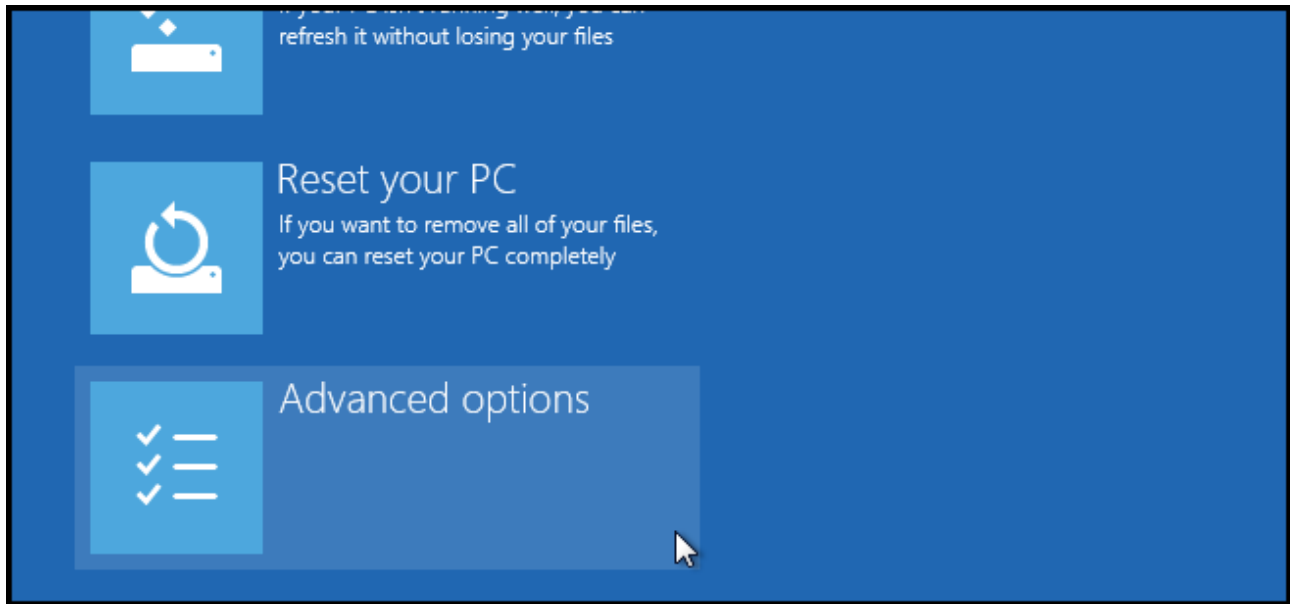
Exit and continue to Windows 8



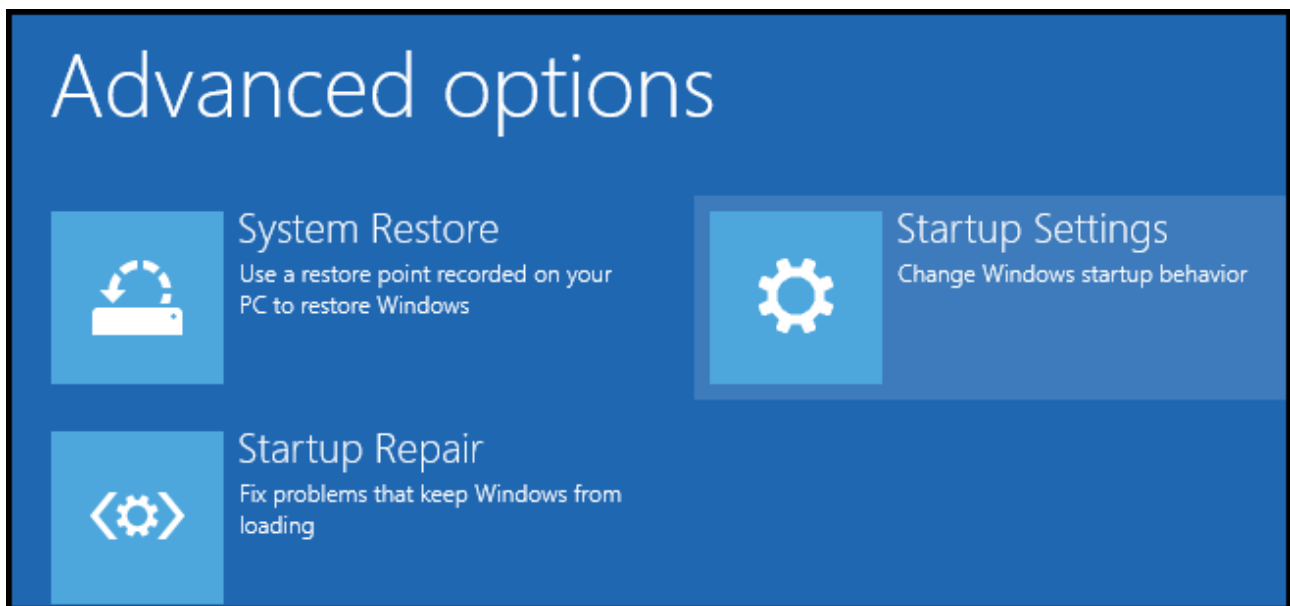
Troubleshoot

Refresh or reset your PC, or use advanced tools

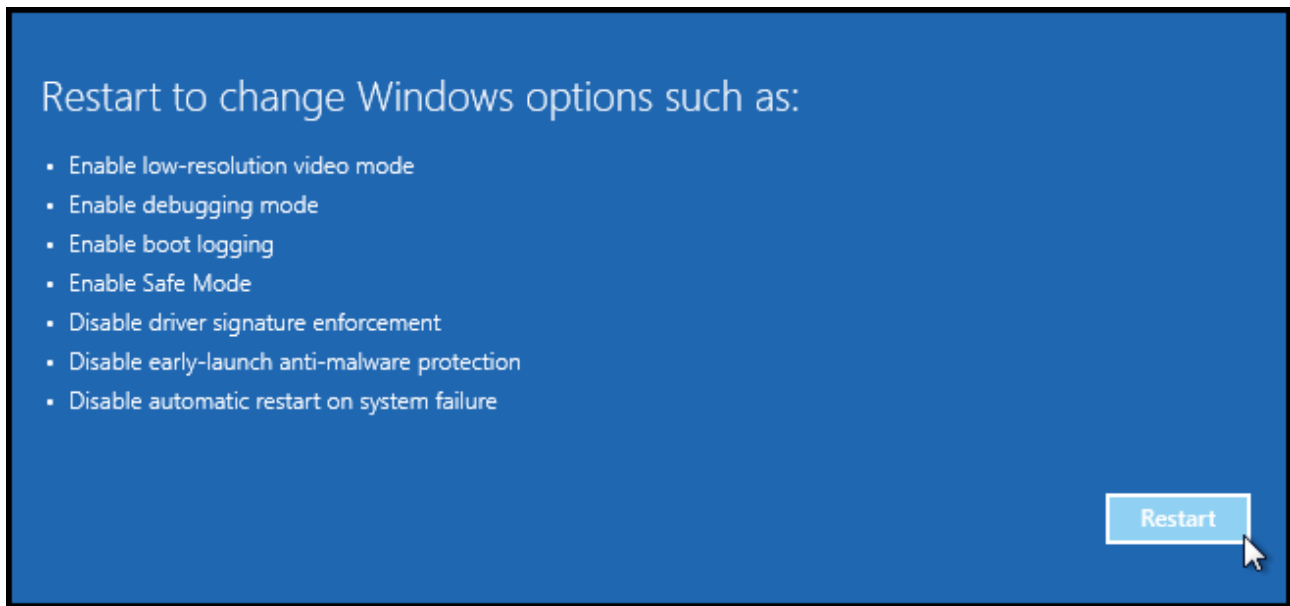
Then head into Advanced options.



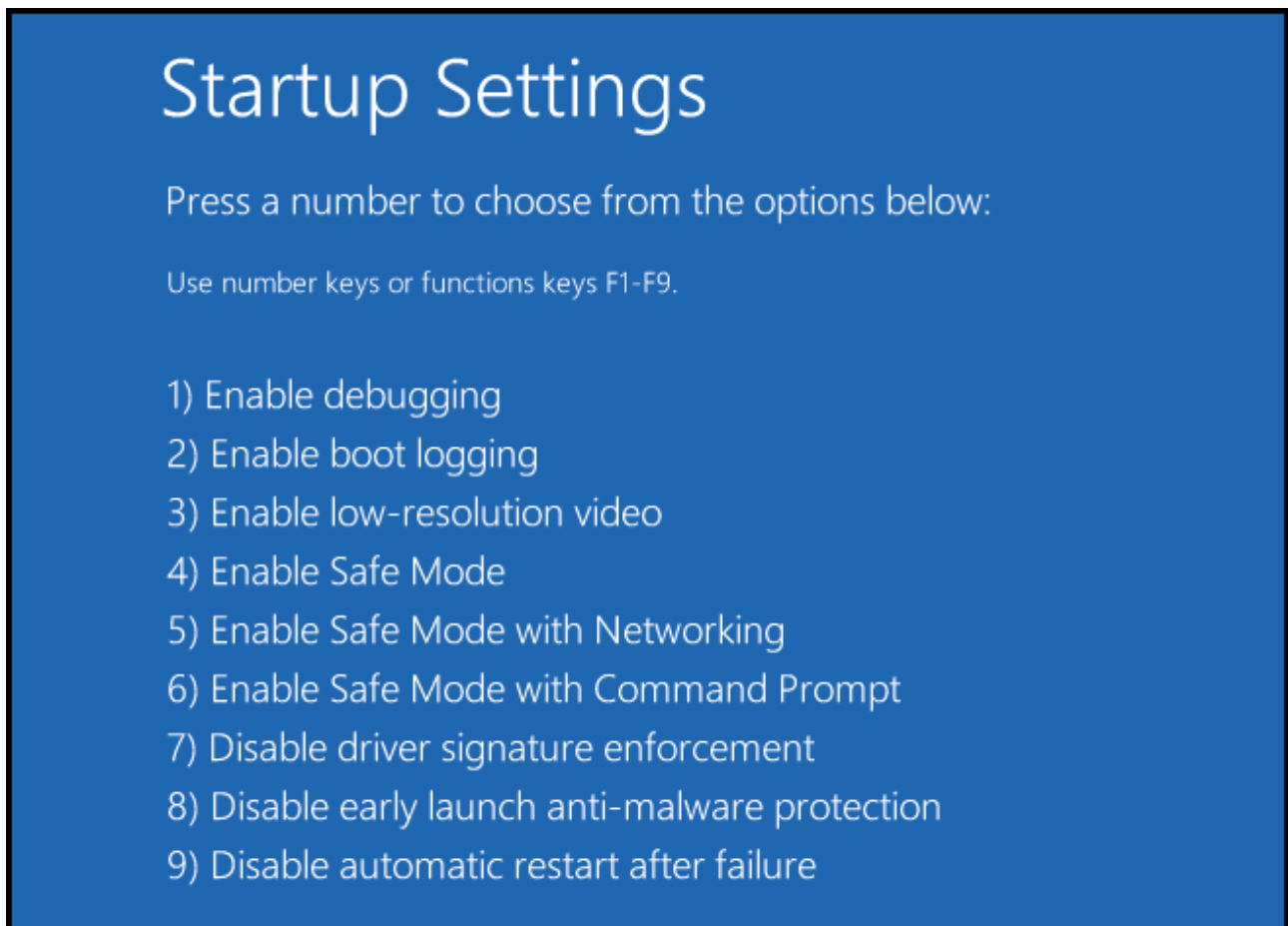
Then Startup Settings.



Since we are modifying boot time configuration settings, you will need to restart your Computer one last time.



Finally, you will be given a list of startup settings that you can change. The one we are looking for is "Disable driver signature enforcement". To choose the setting, you will need to press the F7 key.



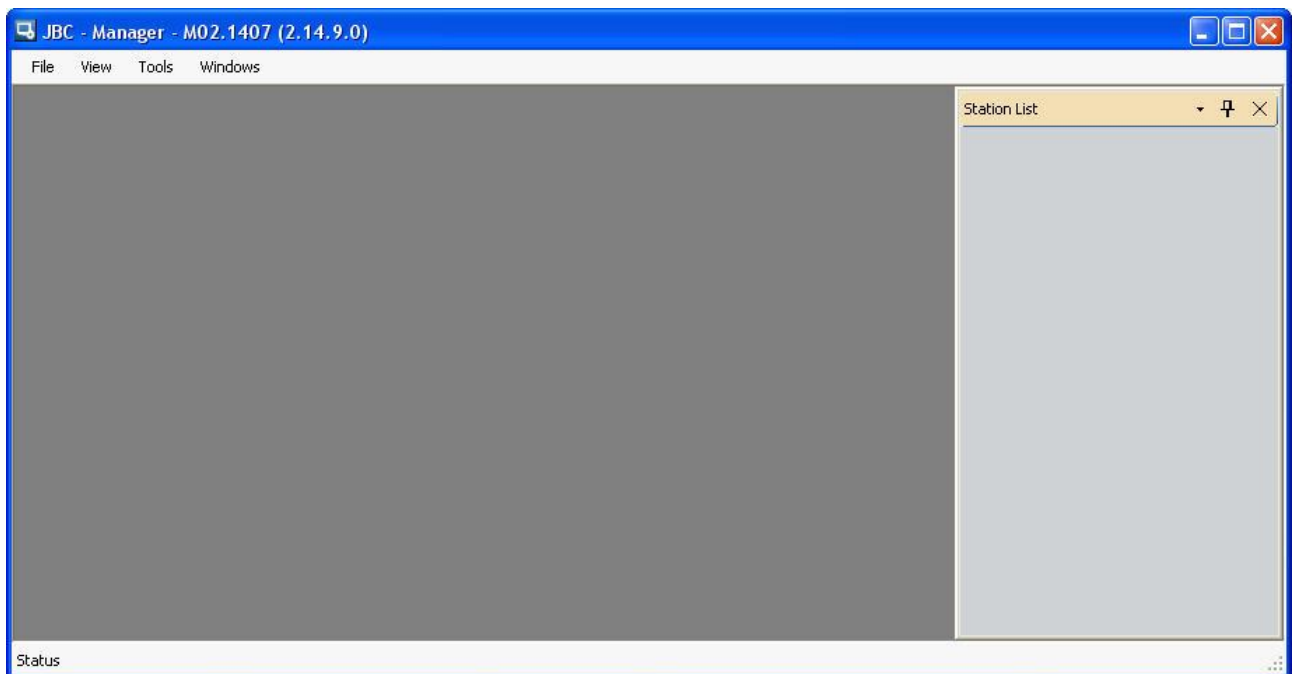
That's all. Your PC will then reboot and you will be able to install unsigned drivers

Program Description

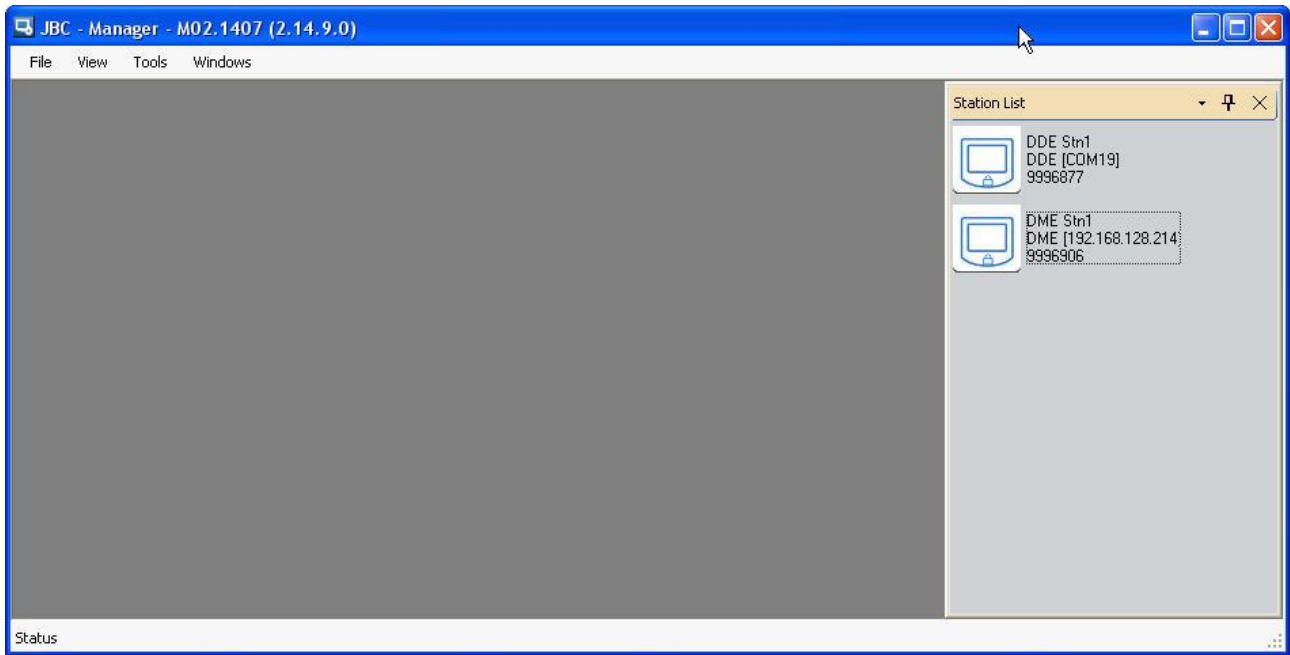
The Manager program allows you to perform the following tasks:

- Monitor active stations connected to the PC by USB or Ethernet connector
- View and modify station settings
- Save, load and print station settings
- Perform settings changes to several stations at once
- Plot station temperature and power data

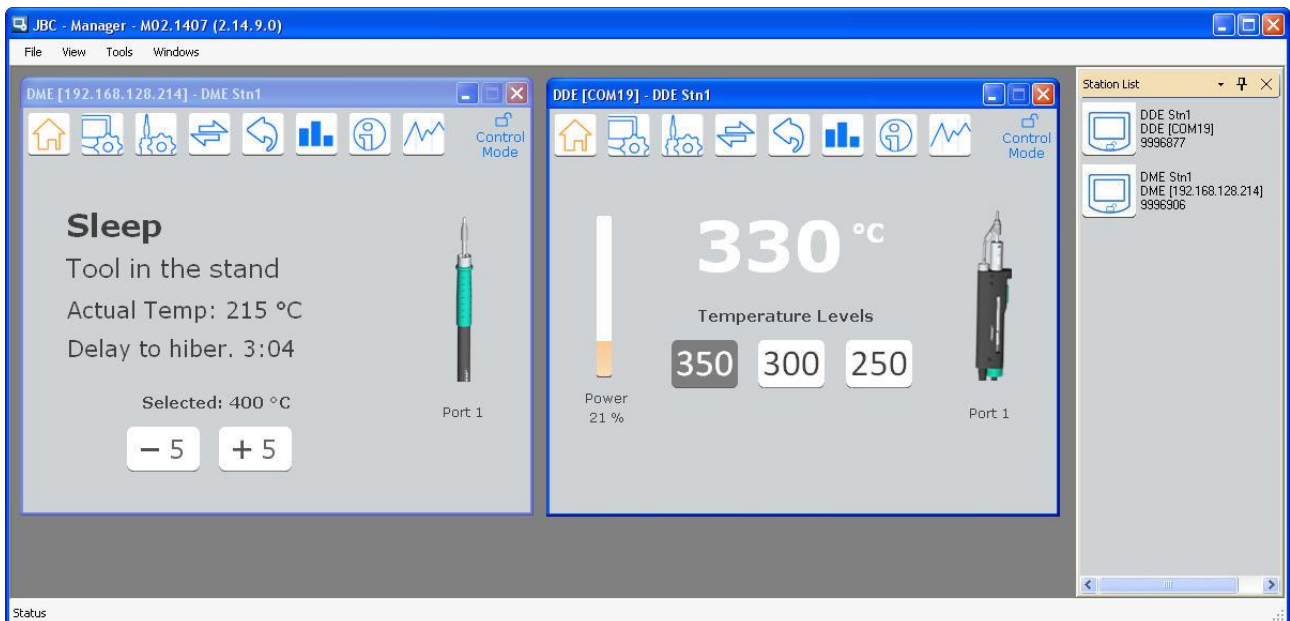
Main Window



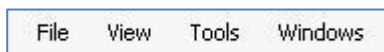
At startup, the Manager program shows all connected stations in the Station List, on the right.



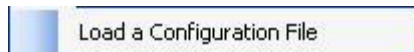
A Station Window appears by double clicking on a station icon in the Station List.



Menu



File



To load a Configuration File previously saved.

See "Load/Save Settings Panel" in page 24 and "Settings Manager" in page 30 to learn how to load, save and apply configuration settings.

View



View - Languages

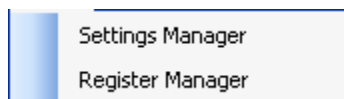


View – Temperature Unit



You can view temperature in Celsius or Fahrenheit in JBC Manager windows.

Tools



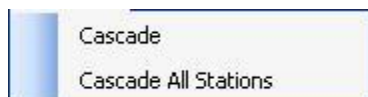
Settings Manager opens an empty Settings Manager window.

See "Settings Manager" on page 30 to learn how to modify station settings in a massive change.

Register Manager opens an empty plot area to register temperature and power data of stations.

See "Register Manager - Plotting" on page 37 to learn how to plot station data into a graphic.

Windows



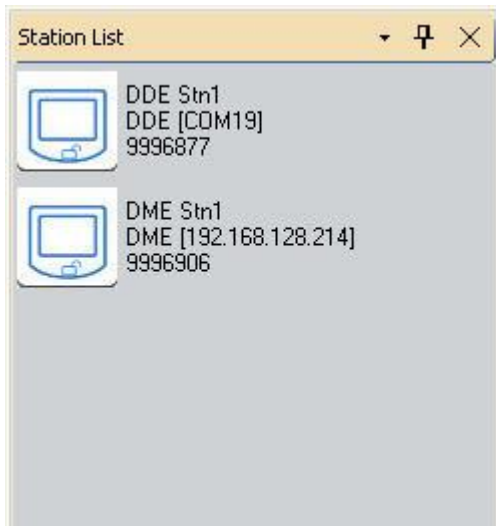
Station List

The Station List show stations as list format and tree format:

- List format shows all connected stations
- Tree format allows you to group stations for better managing them

List format

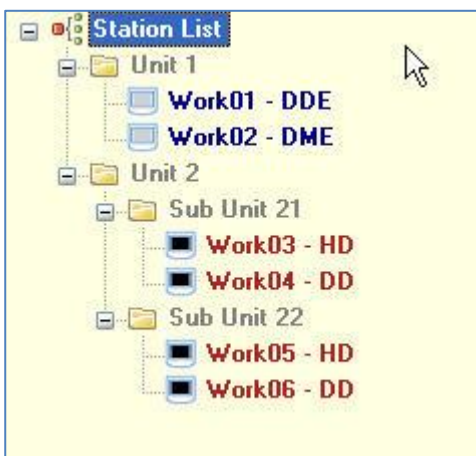
The List format shows all the connected stations as icons or table format.



Each station icon shows the station name and model, and the software version installed.

Tree format

The tree format allows you to group stations for better managing them.

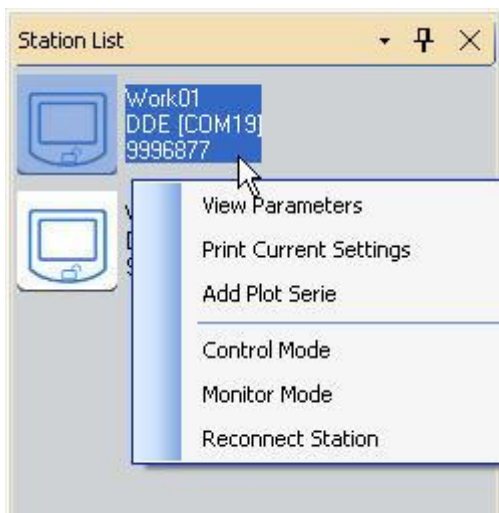


The Manager program maintains the groups and stations you define in it.

Note: Stations showed in blue text, are connected stations.

Station List Popup Menu

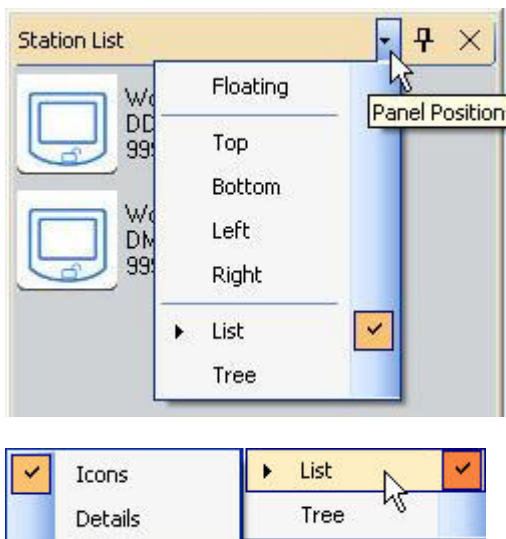
Right clicking in a station, it appears a popup menu.



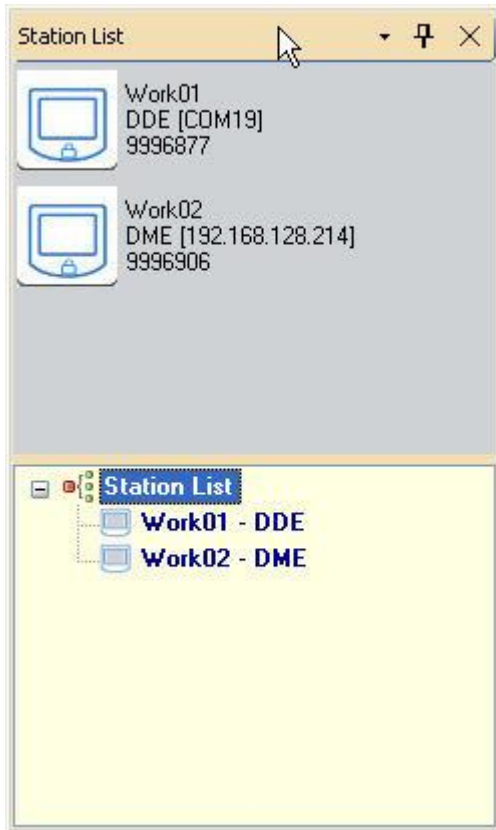
- **View Parameters:** it opens a window containing the station data and settings. It is the same as double clicking.
- **Print Current Settings:** it shows a window with the station settings. You can print the station settings from that window. See an example in "Printing Settings" in page 31.
- **Add Plot Serie:** To add series to a new plotting window. See "Register Manager - Plotting" on page 37 to learn how to plot station data into a graphic.
- **Control Mode and Monitor Mode:** To change station settings, you must enter in Control Mode. The program will ask you the station password. See "Monitor and Control Modes" in page 18.

Station List Position and Style

Use the Panel Position icon to change the position and style of the Station List

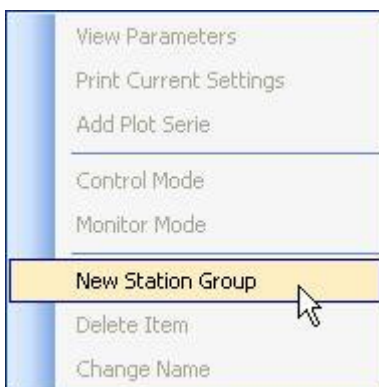


Both formats can be viewed in the Station List panel, by selecting "List" and "Tree".



Grouping stations

You can create groups of stations by selecting the root element "Station List" or group, and choosing "New Station Group" option from the popup menu. A new group is added and you can change its name.

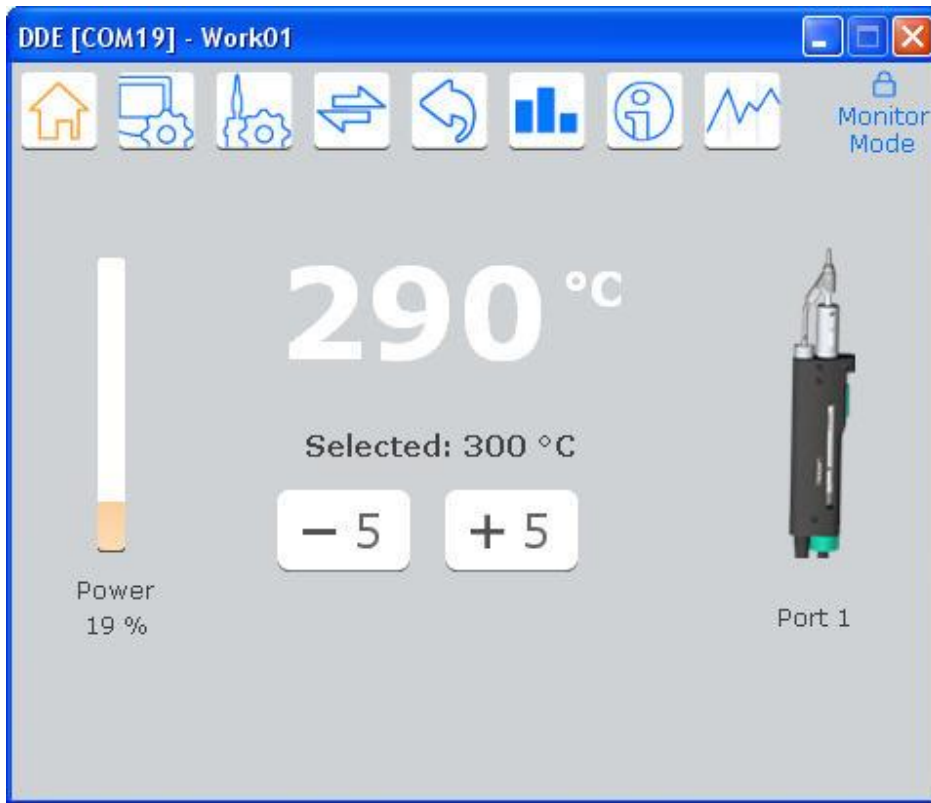


Then, drag a station to the group.



Station Window

The Station Window has the station data and settings grouped by panels. You can switch between these panels by clicking on the icons at the top of the window.



The panels are the following:

- Work Panel
- Station Settings Panel
- Tools Settings Panel
- Load/Save Settings Panel
- Reset Station Settings Panel
- Counters Panel
- Station Data Panel

Monitor and Control Modes

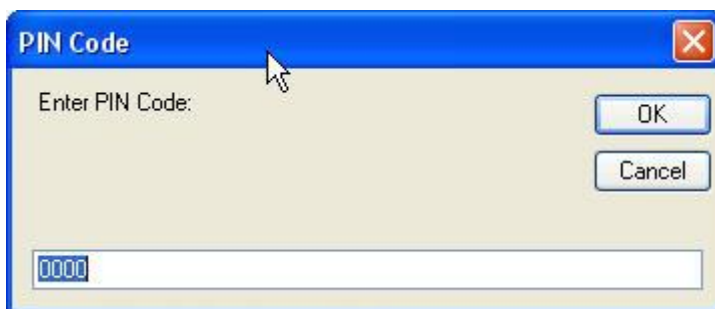
Each station has two Modes:

- In Monitor Mode you can only view data and settings. You cannot change settings.
- In Control Mode you can change some station settings.

To switch between Monitor and Control mode click on the lock icon.



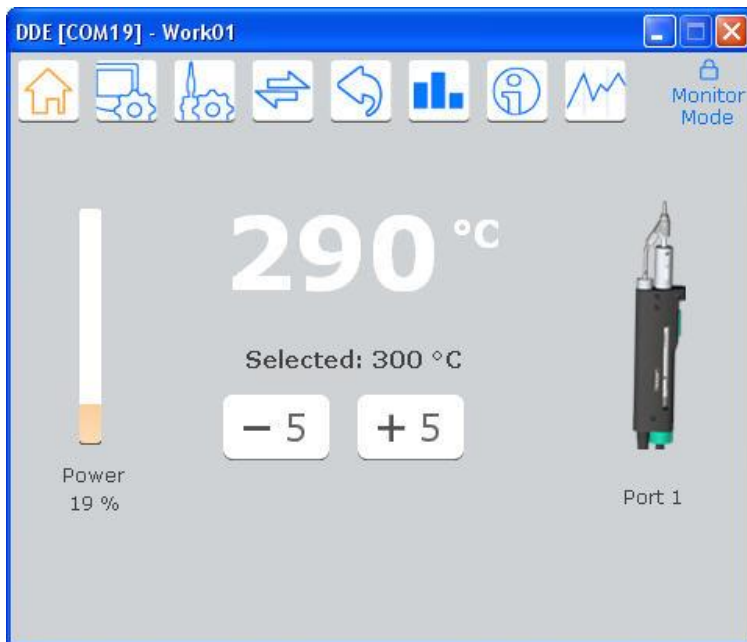
To enter in Control Mode, you must enter the password (station PIN Code).



Work Panel

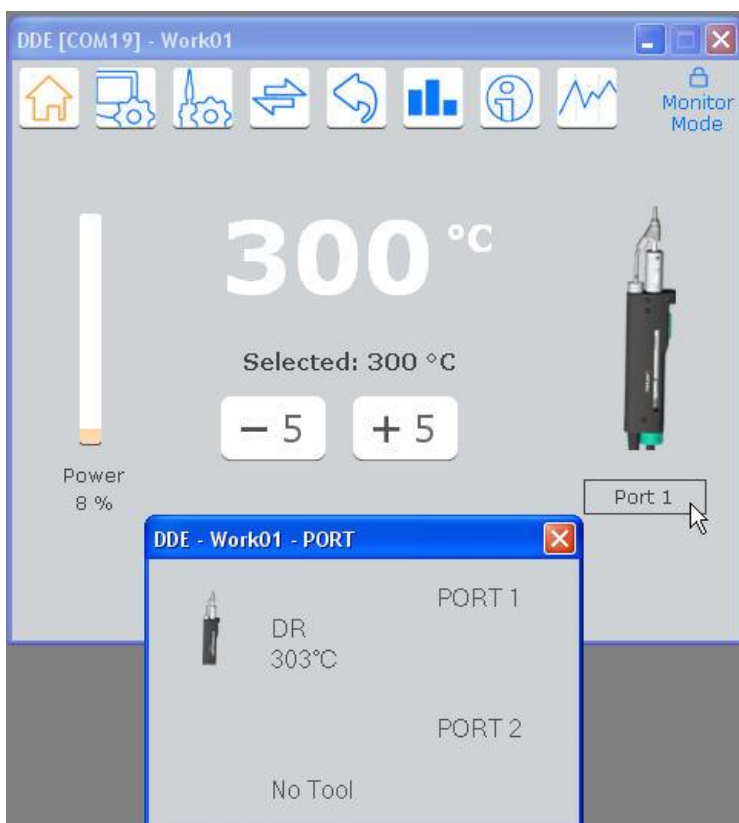
The Work Panel shows the selected port, an image of the connected tool and the actual temperature and power.

You can change the selected temperature by clicking in the -5 or +5 icons.



Switching to other Port

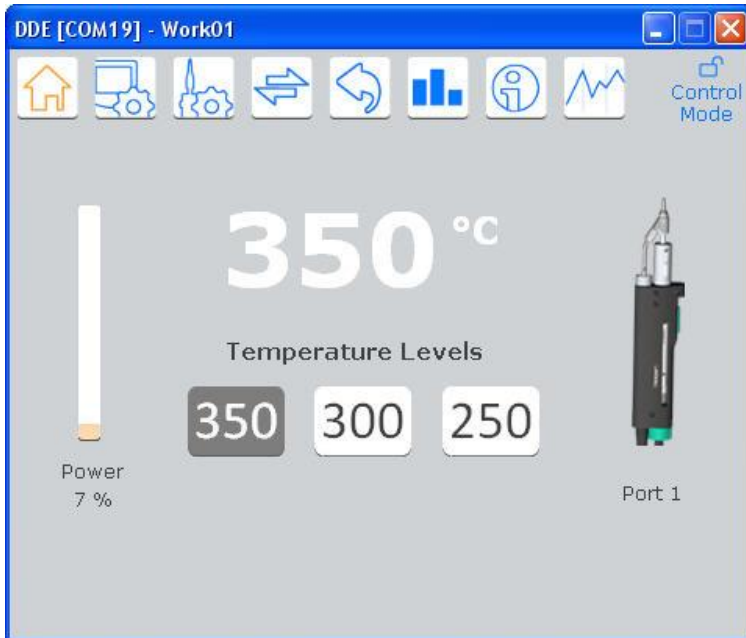
To switch to other port, click on the "Port x" rectangle and select another port.



Work Panel with Temperature Levels

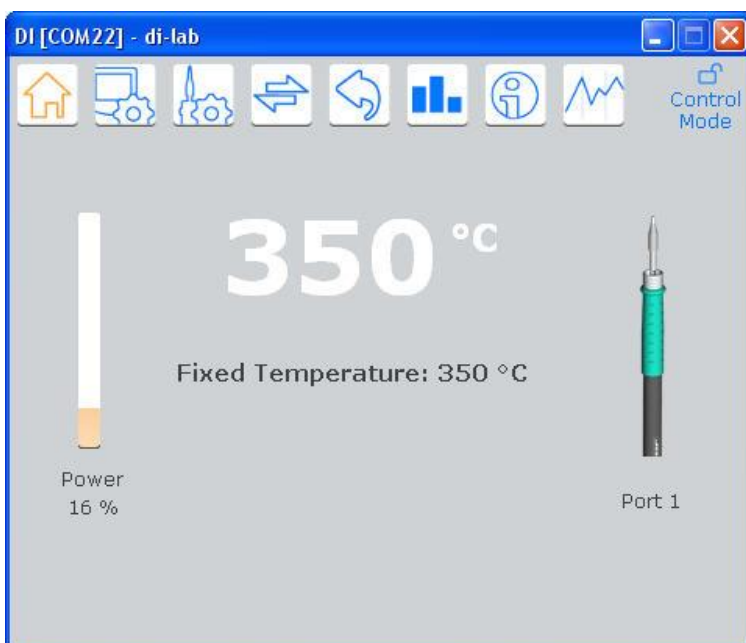
If the selected port is configured with a temperature level, you will see the levels and the current selected level.

You can change the selected level by clicking on the desired level. You can switch to a level to already have a temperature defined in it.



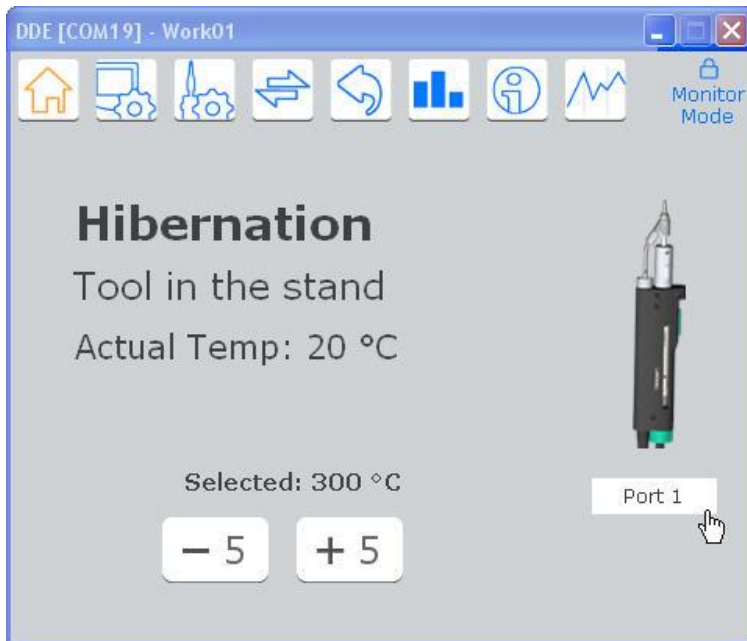
Work Panel with Fixed Temperature

If the selected port is configured with a fixed temperature, you will see the selected fixed temperature.



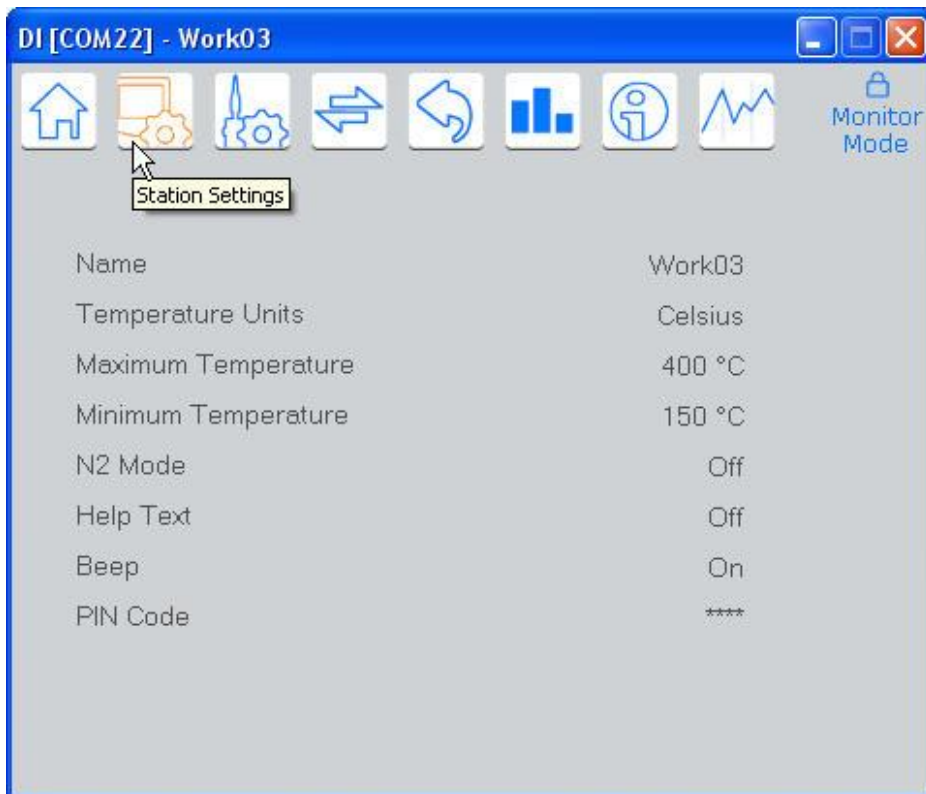
Sleep or Hibernation Status

If the station enters in a Sleep or Hibernation status, the following data will be showed.



Station Settings Panel

This panel contains station settings. You can change all of them.

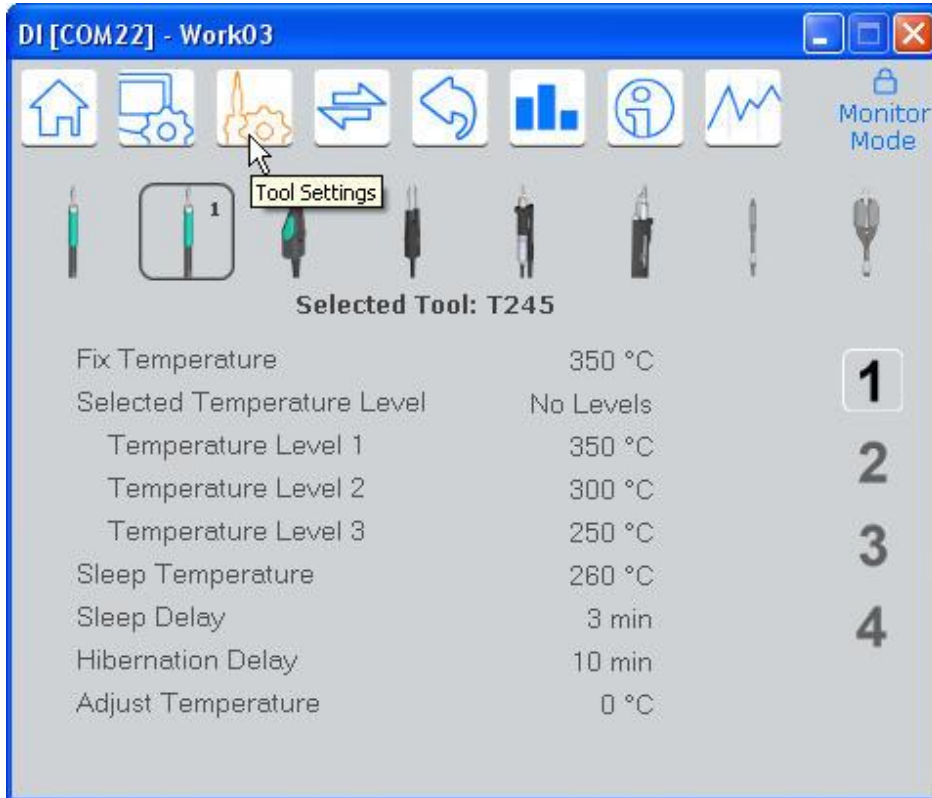



Tools Settings Panel

This panel shows Port/Tool pairs settings

The ports are showed at the right edge and the tools are showed at the top of the panel.

You can change all the settings.



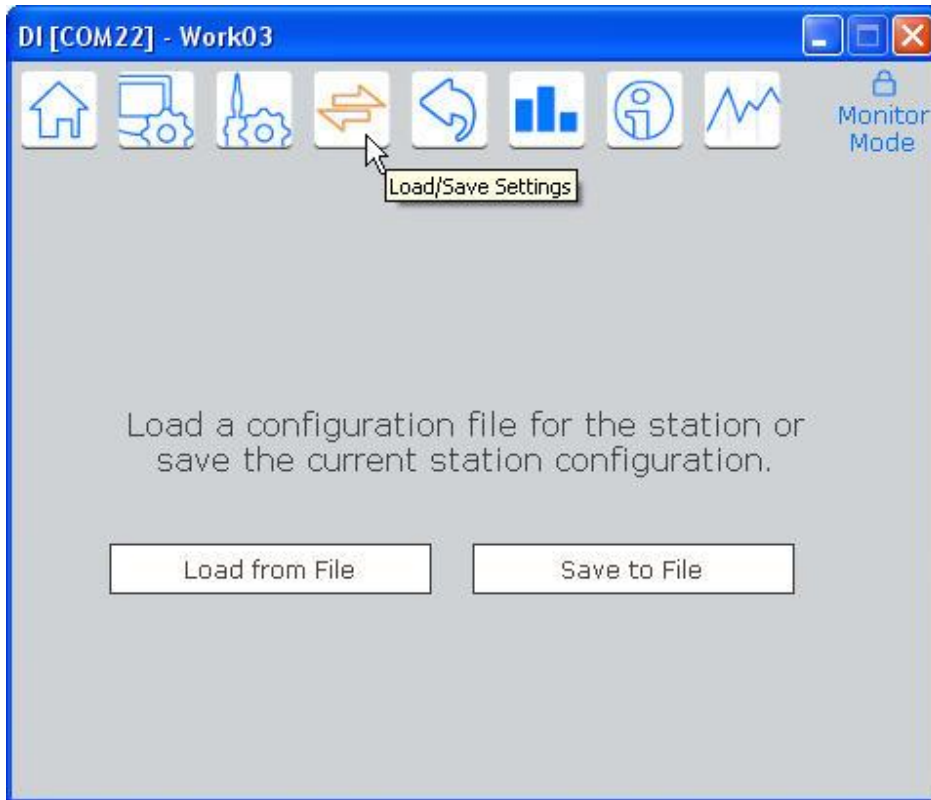
Current connected tool in the selected port is showed with a  near of the tool image.

Load/Save Settings Panel

You can save the current station settings to a configuration file.

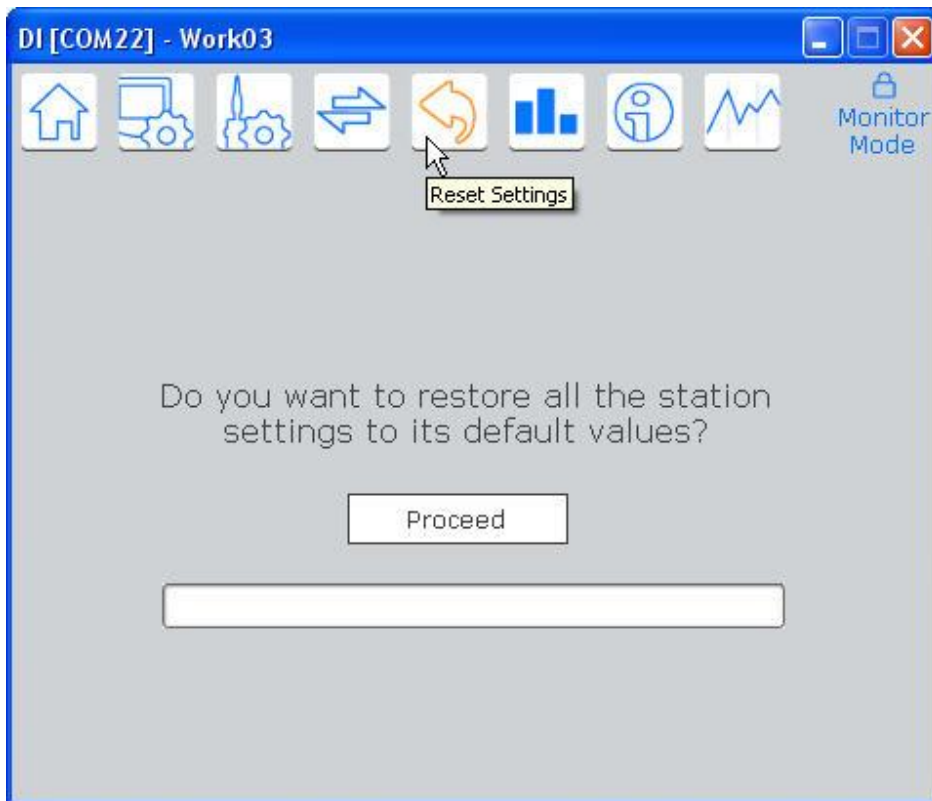
Also, you can load a configuration file into the station, setting all compatible station and tools values.

Although, we recommend that you use the Settings Manager tool, where you can select which settings will be loaded into the station. See "Settings Manager" in page 30.



Reset Station Settings Panel

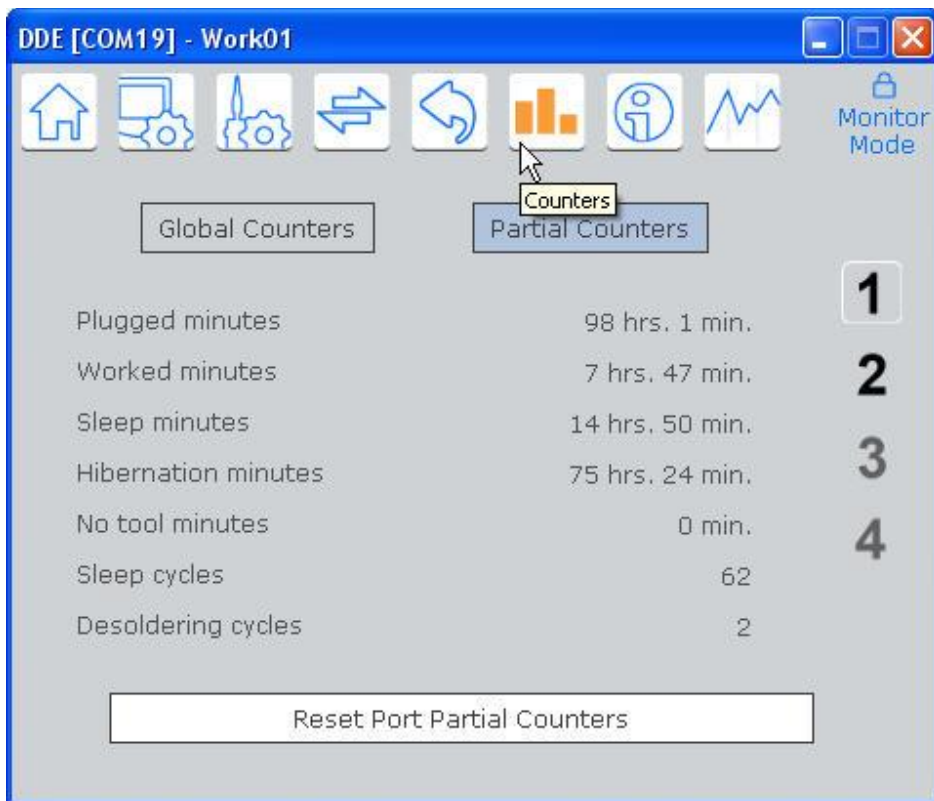
This panel allows you to reset the station settings to the factory values.



Counters Panel

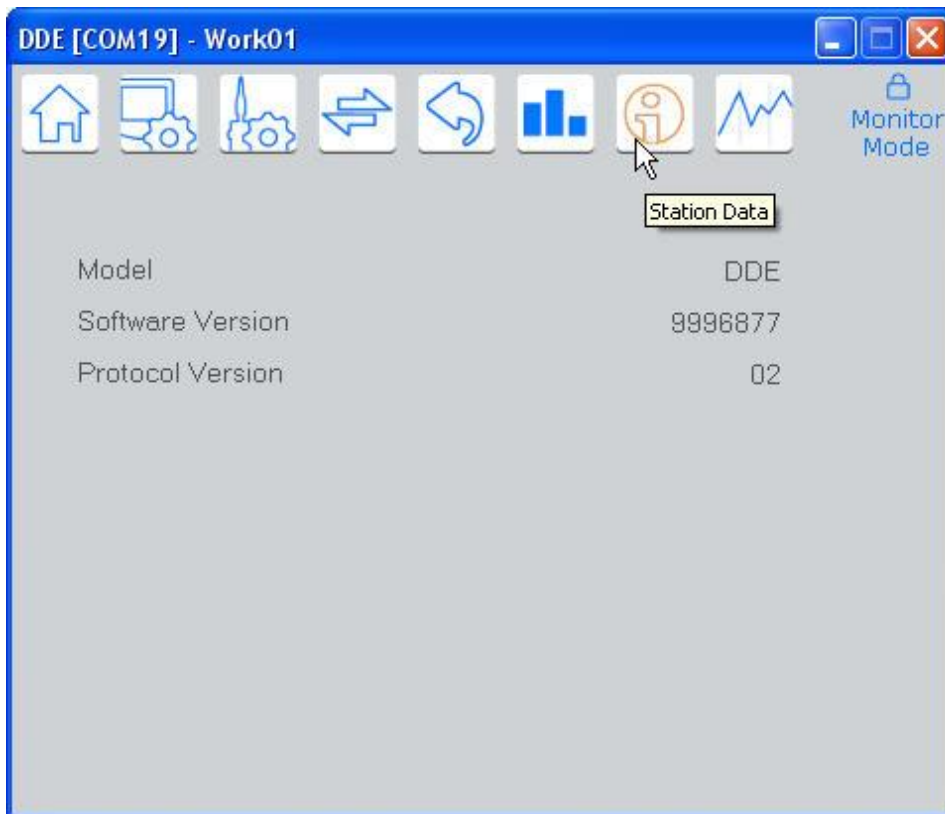
This panel shows you the counters associated to each port.

You cannot change these values.



Station Data Panel

This panel shows you station data that you cannot change.



Modifying Station Settings

Some values are values that should be written, like the station name or the temperature values.

Others are "switching" values that change simply by clicking on it, like On/Off values, selected temperature level or delays.

Editing settings

When you click over a setting, an edit textbox appears to enter the new value. Press Enter to end the setting edition.

If you are editing the value and press the Escape key, the value will change to the original value.



Editing switching settings

For "switching" values, you will see a hand with a plus sign into it. If you click on the setting, the value will change to the following allowed value.

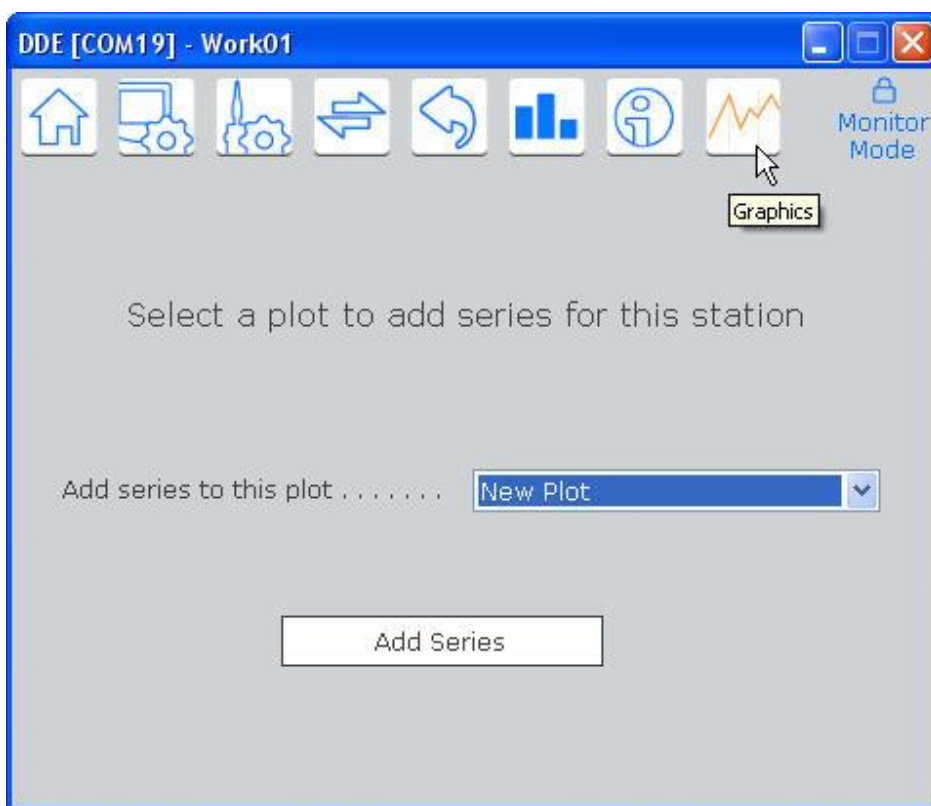


Pressing and maintaining pressed the Control key, the sign will change to a minus sign to indicate that the value will be set to the previous allowed.



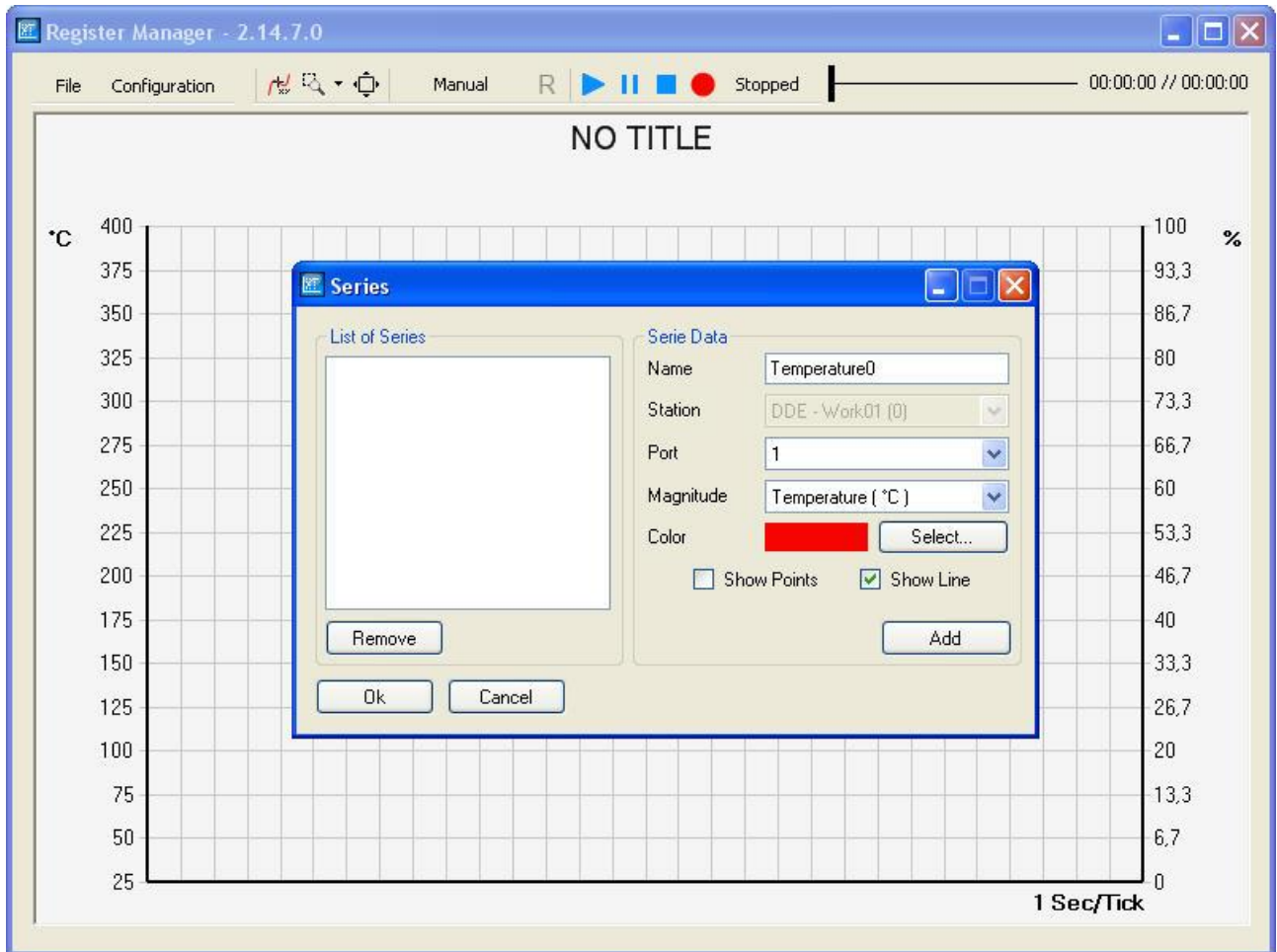
Station Graphics Panel

This panel allows you to add series of this station data to be plotted in the Register Manager



Select a plot window where you want to add series of this station, and press Add Series button.

A Series window appears to add series of the selected station.



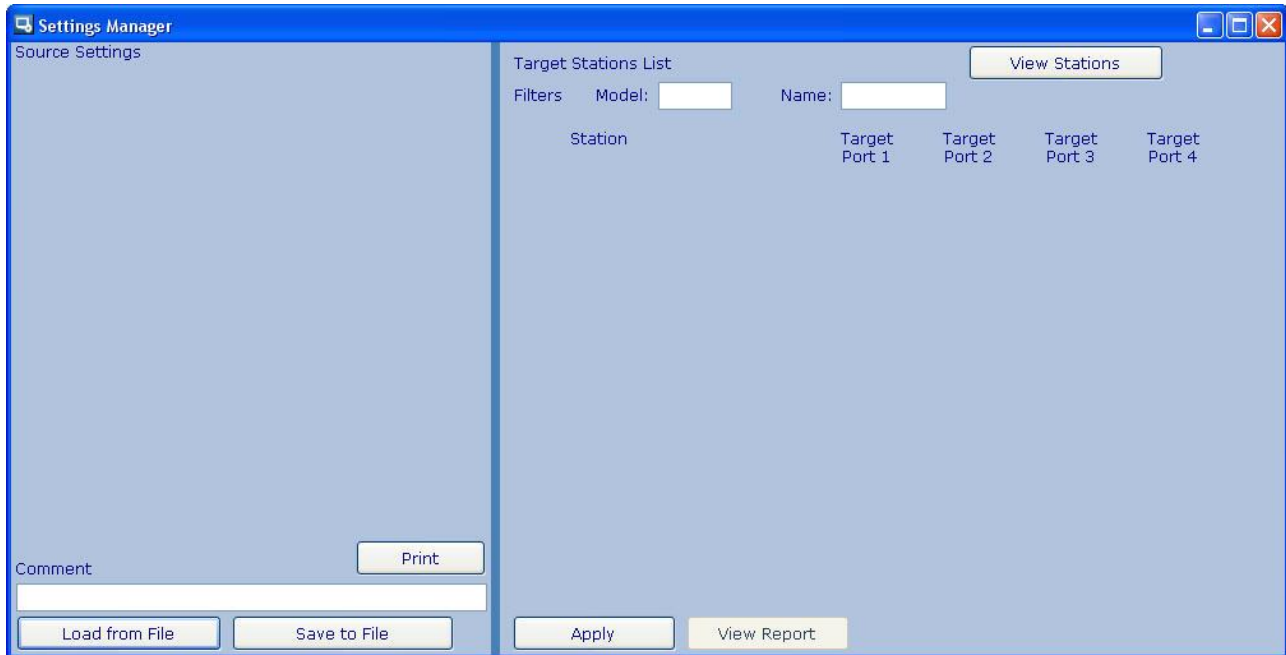
You can also add station series by:

- Selecting the "Add Plot Serie" menu option of the Station List (to a new plotting window).
- Dragging a station from the Station List (to an open plotting window).

See "Register Manager - Plotting" on page 37 to learn how to plot station data into a graphic.

Settings Manager

Selecting *Tools -> Settings Manager* or *File -> Load a Configuration File* menu options, the following window appears.



This window allows you to load source settings on the left panel to be applied to stations listed on the right panel.

Source settings appear as a tree and you can modify them previous to be applied to target stations.

Source Settings Panel

Source Settings

- ☒ Model: DDR
 - ☐ Station Settings
 - ☐ Name: Work001
 - ☐ Temperature Units: Celsius
 - ☐ Minimum Temperature: 200 °C
 - ☐ Maximum Temperature: 400 °C
 - ☐ N2 Mode: Off
 - ☐ Help Text: Off
 - ☐ Beep: Off
 - ☐ Software Version: 9996779
 - ☐ Protocol Version: 01
 - ☒ Ports and Tools
 - ☒ Port: 1
 - ☐ Selected Temperature: 380 °C
 - ☒ Tool: T210
 - ☐ Fix Temperature: --- °C
 - ☒ Selected Temperature Level: No Levels
 - ☒ Temperature Level 1: 200 °C
 - ☒ Temperature Level 2: 250 °C
 - ☒ Temperature Level 3: 280 °C
 - ☐ Sleep Temperature: 180 °C
 - ☐ Sleep Delay: 0 min
 - ☐ Hibernation Delay: 30 min
 - ☐ Adjust Temperature: 0 °C
 - ☐ Tool: T245
 - ☐ Tool: PA
 - ☐ Tool: HT
 - ☐ Tool: DS
 - ☐ Tool: DR
 - ☐ Port: 2

Comment

Print

Load from File Save to File

Loading Settings

You can load settings from a previously saved Configuration File, using the "Load from File" button, or by dragging a station from the Station List to load current settings of a connected station.

Save Settings to Configuration File

You can save the source settings tree and a Comment to a Configuration File by using the "Save to File" button.

Printing Settings

You can print the source settings, also.

Selecting Settings to apply to target stations

You must select the check boxes of the settings that will be applied to the stations listed on the right panel.

By selecting a tree node, all the children nodes and it parents nodes will be selected.

By deselecting a tree node, all the children nodes will be deselected.

Modifying Settings

Some values are values that should be written, like the temperature values; others, are "switching" values, which change simply by clicking on it, like On/Off values, selected temperature level or delays.

Editing Settings

When you click over a setting, an edit textbox appears to enter the new value. Press Enter to end the setting edition.

If you are editing the value and press the Escape key, the value will change to the original value.

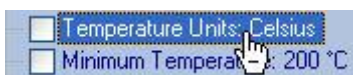


Editing Switching Settings

For "switching" values, you will see a hand with a plus sign into it. If you click on the setting, the value will change to the following allowed value.



Pressing and maintaining pressed the Control key, the sign will change to a minus sign to indicate that the value will be set to the previous allowed.

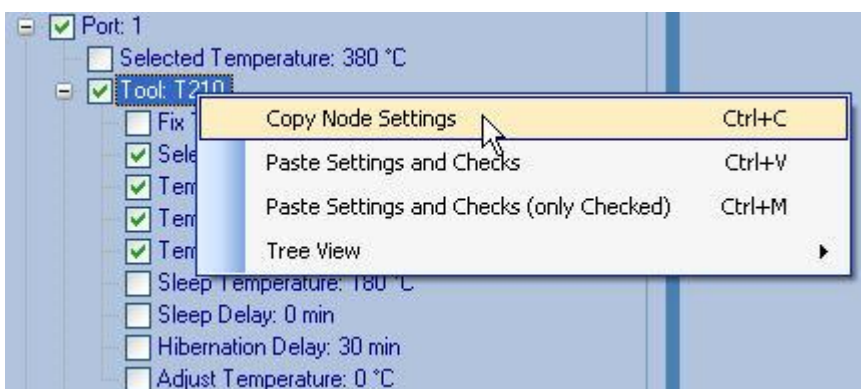


Copying/Pasting Settings

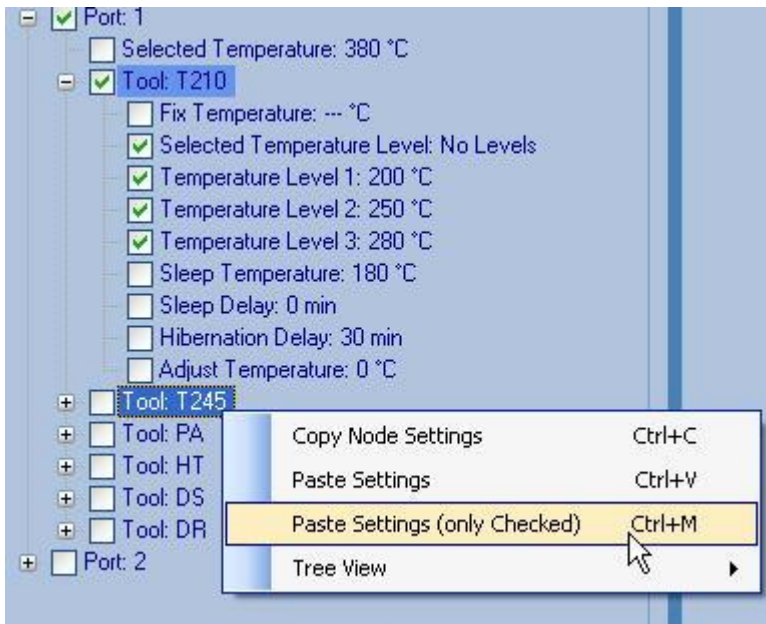
To simplify defining source settings, you can copy/paste some node data.

First, define a node to be copied by selecting "Copy Node Settings" from the popup menu.

You can use Ctrl+C keys.



The node will be marked as source node by changing its background color.



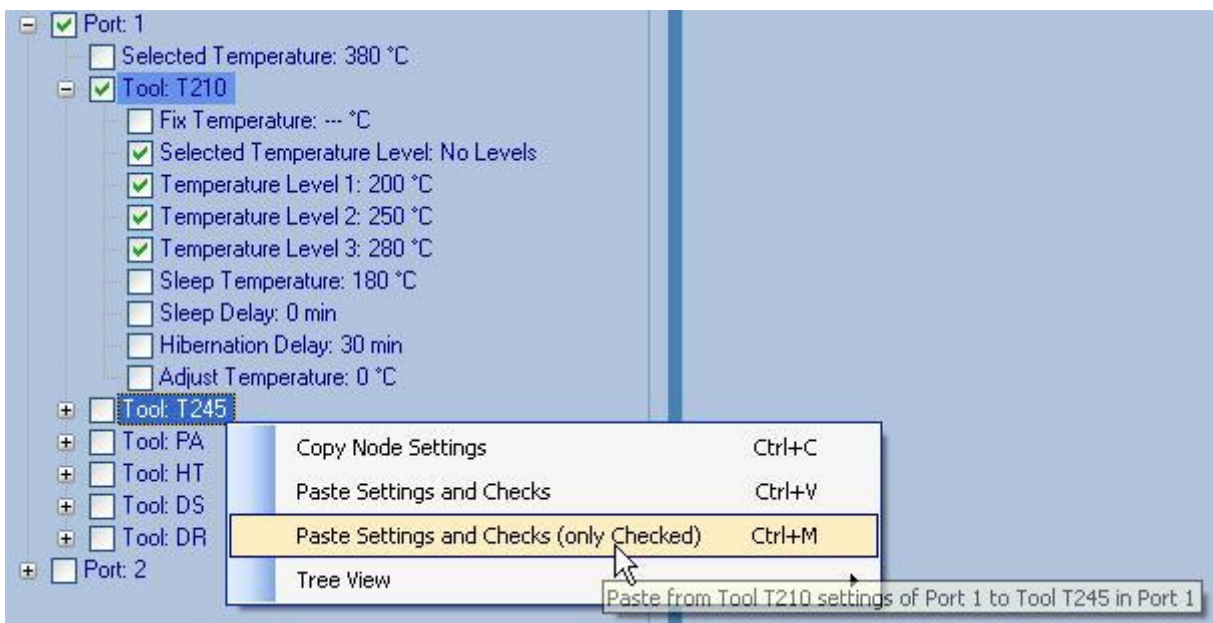
Select other node and choose "Paste Settings" or "Paste Settings (only Checked)", if they are available.

Selecting "Paste Settings" (Ctrl+V), all node settings will be copied to the target node.

Selecting "Paste Settings (only Checked)" (Ctrl+M), only checked settings will be copied to the target node.

You can change from "Paste Settings" to "Paste Settings and Checks" by clicking the Control key.

"Paste Settings and Checks" option copies both the setting value and the check mark.



Target Stations Panel

Once you have defined the source settings to be copied to target stations, you must select them in the "Target Station List" panel on the right.

Target Stations List

View Stations

Filters Model: Name:

Station	Target Port 1	Target Port 2	Target Port 3	Target Port 4
---------	---------------	---------------	---------------	---------------

Apply View Report

Listing and Filtering Target Stations

Click "View Stations" button to list the target stations.

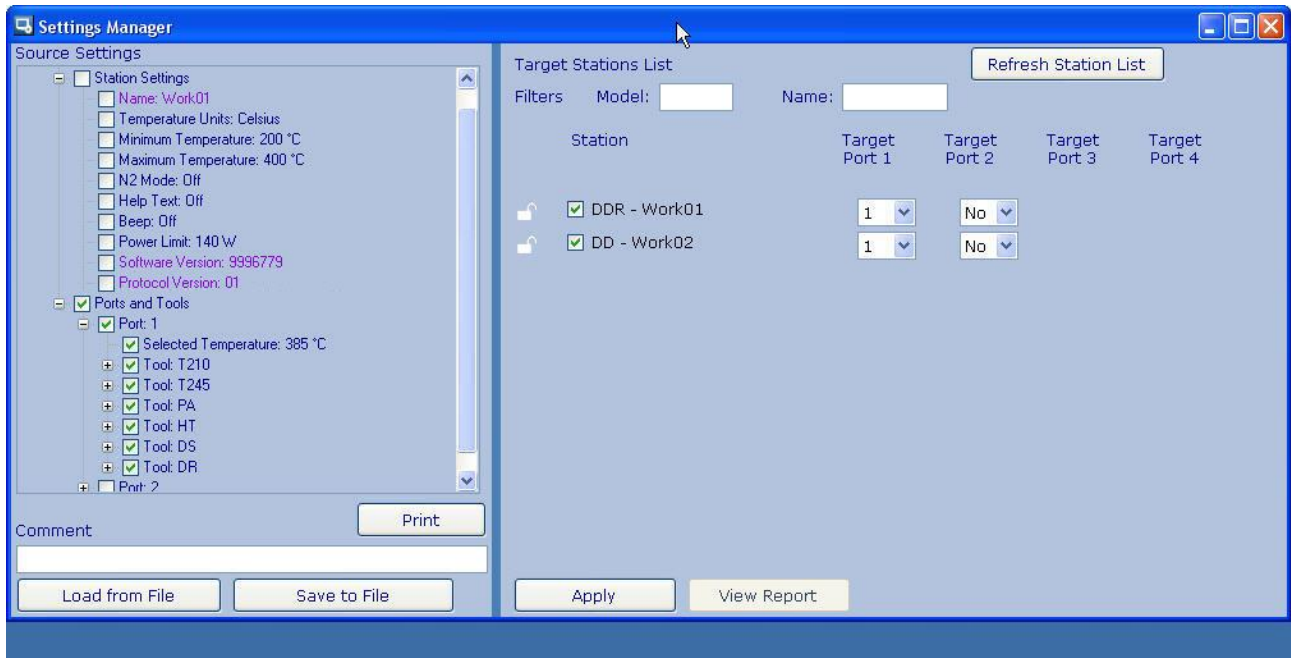
You can filter the list by model or name. It is allowed use asterisks; for example, "Work*" will show stations like "Work01", "Work02", "WorkAAA", etc.

Refresh the station list after entering a filter.

Selecting Stations and Ports

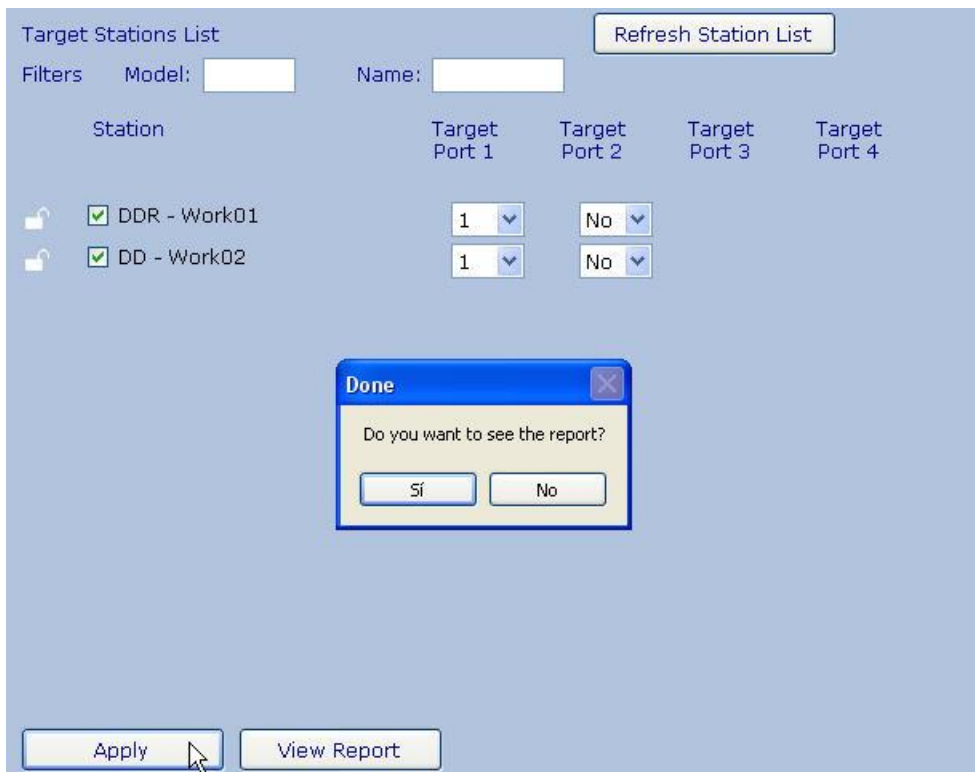
After listing the target stations, you should assign which source port settings will be configured in target ports.

In the following example, settings from port 1 will be applied to port 1 of stations Work01 and Work02.



Applying Source Settings to Target Stations

After target stations and ports selection, click on "Apply" button to copy source settings to target stations.



Viewing a Report

After applying, you can view a report about what was applied.

The report contains the selected source settings, the target stations and ports and any warning about problems when trying to apply settings.

Configuration Report

[2013-04-02 15:36:11 UTC+4:2]

Source Parameters (°C)

Parameter	Value	Parameter	Value
Name		Temperature Units	
Minimum Temperature		Maximum Temperature	
N2 Mode		Help Text	
Beep		Power Limit	
Software Version		Protocol Version	

Port	Tool	Selected Temperature	Fix Temperature	Selected Temperature Level	Temperature Level 1	Temperature Level 2	Temperature Level 3	Sleep Temperature	Sleep Delay	Hibernation Delay	Adjust Temperature
1		385 °C									
	T210		---	First	200 °C	---	---	180 °C	0 min	30 min	0 °C
	T245		---	No Levels	300 °C	---	---	180 °C	0 min	30 min	0 °C
	PA		---	No Levels	---	---	---	180 °C	0 min	30 min	0 °C
	HT		---	No Levels	---	---	---	180 °C	0 min	30 min	0 °C
	DS		---	No Levels	---	---	---	260 °C	0 min	30 min	0 °C
	DR		---	No Levels	---	---	---	260 °C	0 min	30 min	0 °C
2											
	T210										
	T245										
	PA										
	HT										
	DS										
	DR										

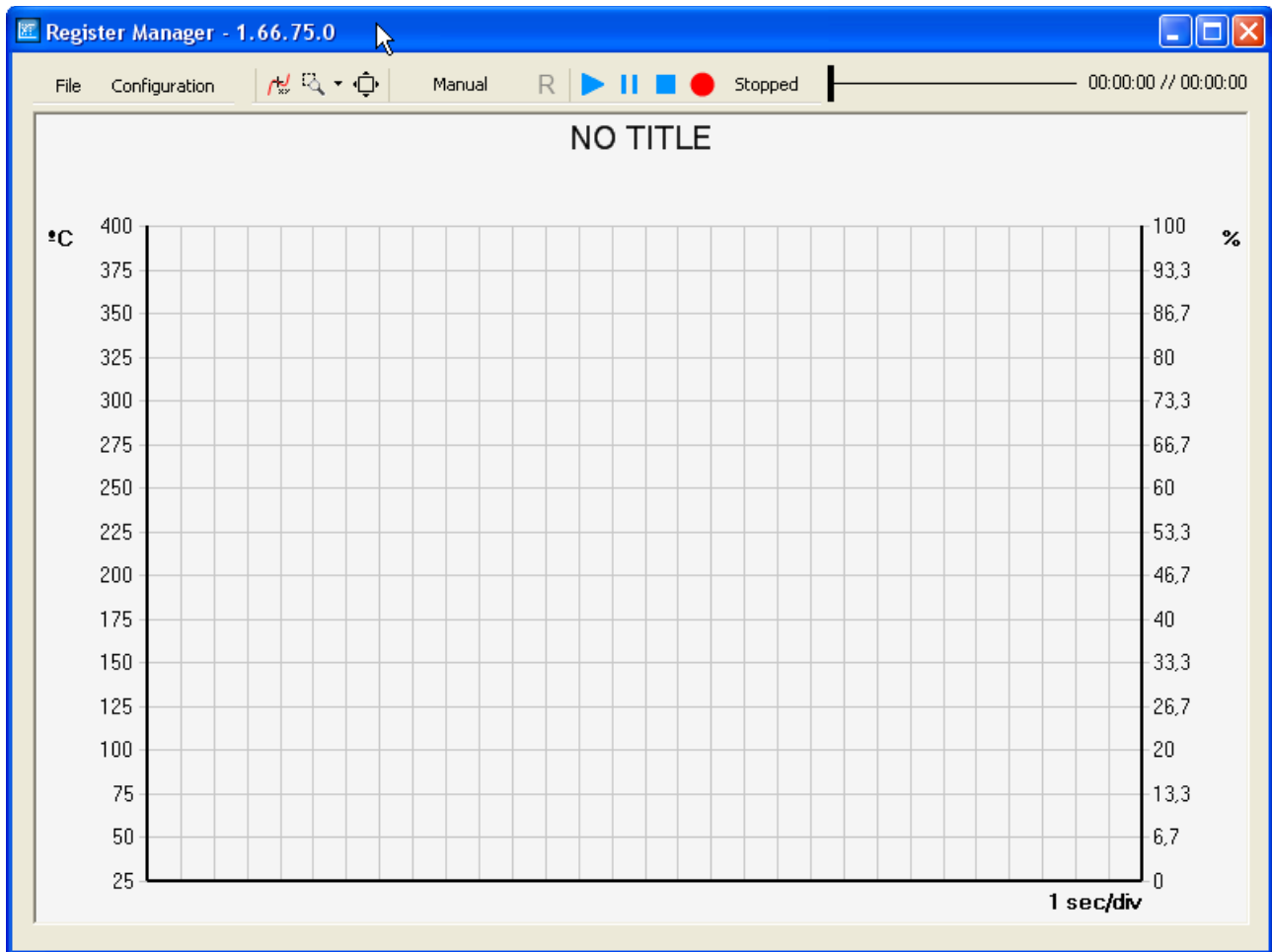
Target Stations and Parameters

Station: Work01 - DDR

Station: Work02 - DD

Register Manager - Plotting

Selecting *Tools -> Register Manager*, the following window appears.



Control Bar



File

- **New:** Deletes the data currently recorded as well as the series created.
- **Open:** It allows you to open a LBR file previously recorded with this program to redisplay a graph.
- **Save As:** Saves the current graph in LBR format to view it afterwards.
- **Print:** Print the graph displayed in the program.
- **Export to CSV:** Export data series to a CSV (Comma separated value) to be processed by other programs. Temperature units written to the CSV file will be in the current temperature unit of the plot.

Configuration

- **Wizard:** Sets the basic parameters to do a graph.
- **Series:** Allows to add, edit and delete plot series. You can also add station series by:
 - Selecting the "Add Plot Serie" menu option of the Station List (to a new plotting window).
 - Dragging a station from the Station List (to an open plotting window).
 - Using the Wizard.
 - Selecting "Add Series" from Graphics tab of a station window (to a new or open plotting window).

- **Axis and Grid:** It allows you to adjust the axes of temperature, power and time as well as the horizontal and vertical grids. This adjusts the ranges for the axes and the steps of the grids.

You can also change the temperature units for the plot: Celsius (°C) or Fahrenheit (°F).

- **Options:** You can set various options as well as the trigger.
- **Title:** This option changes the title of the graph that is being displayed.
- **Templates:** In this option you can load and save templates of graphs.

Coordinates



This button displays the values of the series. Pressing the button will display a popup window that will show the values of the series in the selected time.

Zoom



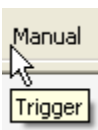
This button allows zooming a single axis either horizontally or vertically, or both axis simultaneously. After selecting an option, drag the mouse over the chart area to zoom in.

Default Zoom



This button restores the plot zoom to the default value.

Trigger Type



It indicates the trigger type that is currently selected (Manual, Auto or Single). If trigger type is not Manual, "R" button resets the detection of the trigger.

Record and Play Controls

- **Play:** It plays the current graph. During playback, times listed to the right indicate the total recorded time and the current playback time.
- **Pause:** It pauses playback or recording.
- **Stop:** It stops current playback or recording
- **Record:** It starts recording the data. Total recording time is showed at the right of the time bar.

Also there is a time bar to indicate the state of playback of the graph. The bar displays two notches to indicate the time window visible of the total time. So that the notch on the left corresponds to the left side of the graph area.

If you click on the time bar, the plot area will show the selected time range.

Plotting with the Wizard option

Be sure that the station(s) you want to register are connected and appear in the station list.

Add the desired series you want to plot.

For each serie to be added, select the station, the port of the station you want to plot, the magnitude (temperature or power) that you want to graph and the desired serie name, and press the Add button.

Once you added all series you want to plot, enter the title for the plot and press Next button.

Wizard

Step 1 of 2. Please, connect the stations from where data is desired. Then add the desired series to be shown in the plot by setting the parameters and click on the 'Add' button. Finally, type the desired title for your plot.

Series and Title

Temp HDR 1
Power HDR 1

Station HDR - Work02 (1)

Port 1

Magnitude Power (%)

Name Power1

Remove Add

Plot Title
TEST HDR

Next

The axes and the grid configuration will be requested.

From this window, you can select the desired temperature units for the plot ($^{\circ}\text{C}$ or $^{\circ}\text{F}$).

Step 2 of 2. Select the axis ranges and the grid steps. For the time axis the value represent a time window.

Axis Range

25 °C - 400 °C
200 °C - 400 °C
300 °C - 400 °C

☒ °C
☐ °F

0 % - 10 %
0 % - 20 %
0 % - 50 %
0 % - 100 %
30 % - 100 %

Time Window 30 (seconds)

Grid Step

☒ Temperature 25 25 °C
☐ Power 5 6,67 %
Time 1 (seconds)

Previous Finish

Press Finish button to end the plot settings.

Start recording by pressing the Record button.

If you want to modify, add or delete a serie, or change the axles, you should go to Configuration / Series or Configuration / Axis and Grid.

The recording can be paused and then up again. During the break, you will not get new values for the series.

When you stop recording you can play and move about it by clicking on the time bar.

Trigger

The trigger specifies how the program starts recording.

The trigger options and modes can be defined in Configuration / Options.

- **Manual:** Recording begins when you press the Recording button and does not stop until you press the Stop button.
- **Single:** Recording starts when you remove the tool from the stand and stops when it reaches the right edge of the graph area or time range is over, depending on your time axis settings.
- **Auto:** Recording starts when you remove the tool from the stand and does not stop until you press the Stop button.

You can use the Reset ("R") button in Single mode to re-enable the detection of the trigger.

Options

Colors

Temperature Axis

Power Axis

Time Axis

Grid Divisions

Series Text

Background

Title Text

Plot Starting Side

☒ From left

☐ From right

Trigger

☐ Auto
It starts when extract the tool out of the stand

☐ Single
It starts when extract the tool out of the stand and finishes when time window is reached

☒ Manual
It starts and finishes by using the buttons in the plot

Station

Port

Lines and Points

Line Width (pix.)

Point Width (pix.)

History

Version 0115

Added instructions to disable driver signature verification on Windows 8, when driver installation fails (on page 5).

Version 1014

Changed New stations supported: DDE, HDE, DME, NAE.

Version 0914

New stations supported: Excellence series.

New USB driver to be installed.

Flat style of the User Interface

Version 0114

Selection of temperature units when plotting: Celsius (°C) or Fahrenheit (°F).

Version 1213

Tree view of station list added.

Version 0813

Plotting from the station window and description of the Register Manager.

