Connecting to a PC
User Manual

Optima 100, 250, 300 og 310

Optima Opus

Optima Design

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20.0°

Genvex®

Genlog

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Data logging equipment

You will need the right data logging equipment to start the data log from Optima 100 Opus. The four-point plug have to be connected to the printed circuit board and the USB socket to the PC. The data logging equitment can be acquired at Genvex A/S.
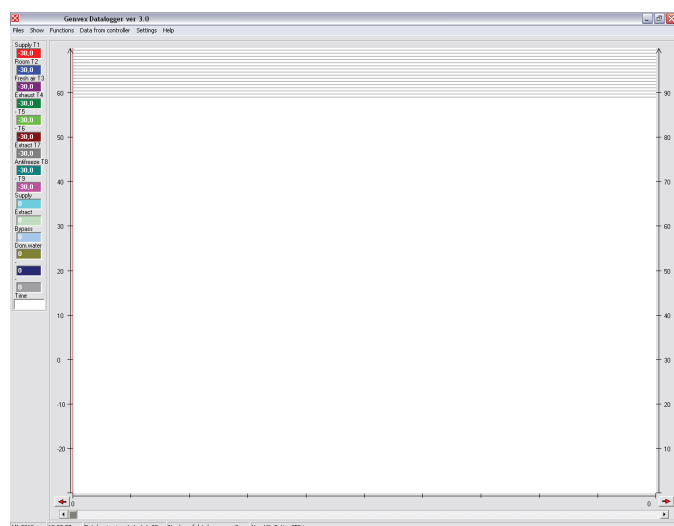
The data logging from Optima 250, 300 & 310 Design happens directly at the user panel. Use a standard USB cable with mini USB socket to connect PC and user panel.

If you have a Optima 250, 300 or 310 Design it is also possible to load data from the SD-card.

Genlog

Function description of data logger

The data logger software is for configuring and monitoring Genvex devices. The guide assumes a correct and functioning set-up of the software. See any installation guide for the software.

The user interface in Genvex data logger (Optima 250)

The data logger can be used for several purposes.
- Settings for parameters in the control system.
- Setting up and changing the clock program in the control system.
- Reading of the data logger in the control panel for the past 3 years.
- A "Live" logging of the device's current operation.
- Subsequent analysis of a device's operation

User interface
The program is constructed with the primary picture in the centre of the screen where the graphs are shown that represent the information that is collected from the control system. At the top is the menu line for the various settings.
On the left side is shown the values that are read either "here and now" or the values that lie underneath the red line. The red line appears when you click on a random location on the display. The figures in the left column will then be all of the values that lie below the line. The colours of the graph in the logging area correspond to the colours shown on the left hand side. The exact time of the logging will be displayed in the field at the bottom. Tip: Click on the field for the clock to change the field to display "LOG NO.". This can be useful if you want to refer to all of a specific logging. At the top of the actual logging area on the screen there is an area with grey and white lines. These lines will be red if an exit or function is active. Hold the mouse cursor over the line for a moment and a small help text will appear. The left side of the logging area is a scale for temperatures. The right hand side of

the logging area is the scale for percentages e.g. for the fan speed. The bottom represents the time-line. A logging can contain a number of pages and a there will therefore be a page number in the bottom corners of the logging area. Change the page by clicking on the red arrow. Hold down the left mouse button for a moment over the red arrow to bring up a dialogue box. You can enter the page number you wish to scroll to here.
The status menu is at the bottom of the page. This line shows the date and time, whether the data logging is started or stopped and the control to which the software is configured (Can be changed in "Settings").

Menus

Files:
*Recieve data** – Recieves data saved earlier on the hard disc
Import from SD-card - Recieves data saved on the user panel
Savs data – Saves the current logging
Save window – Saves only the current window
Save data excel -
Print – Prints the current window
Terminate – Terminates the software

*The data logger works with .txt files and the user panel works with .dal files
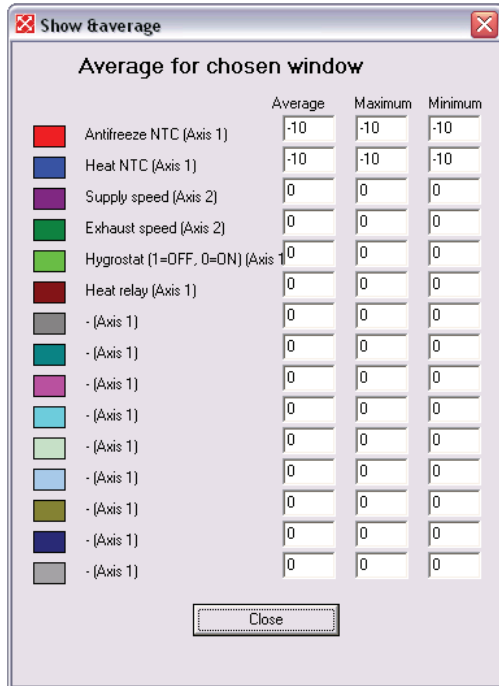
Show:
Show graphs – Opens a check-box that gives the possibility to select or deselect the graphs shown on the screen. This is often to provide an overview.

Zoom – To make the picture bigger or smaller

View average – To view an average of the graphs in the selected window.

Functions:

Start logging – Opens a dialogue box to enter a file name. It is a good idea to include the Optima version to the file name, e.g. write Opt310 as part of the name. A new logging is then started from the control panel. The logging is taken every 20 seconds and is then displayed on the screen. After a while, the logging will begin to form an image. If you do not click on the picture to bring up the red line, the values on the left side will refer to the last logging.

Stop logging – Stops the logging. The display on the screen is saved automatically.

One logging – Performs only one single logging. It is not saved automatically.

Comments to data – A comment to the logging can be added here.

Delete data – The data can be deleted here.

High speed data logging (2 sec.) - Does not save data. It is used for surveillance.

Data from control system:

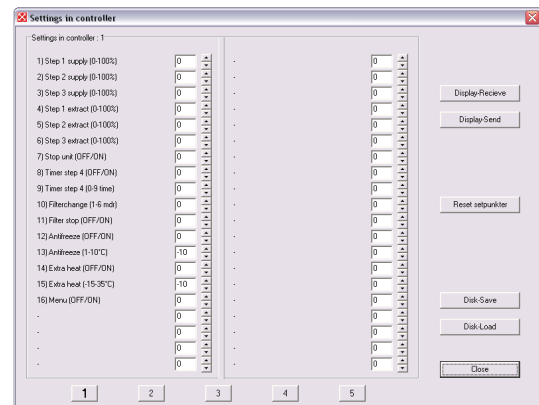*Set-points in control system* – Opens the box below. Here, all set-points from the hard disc or the control panel can be retrieved, changed and then sent back to the hard disc or the control panel.

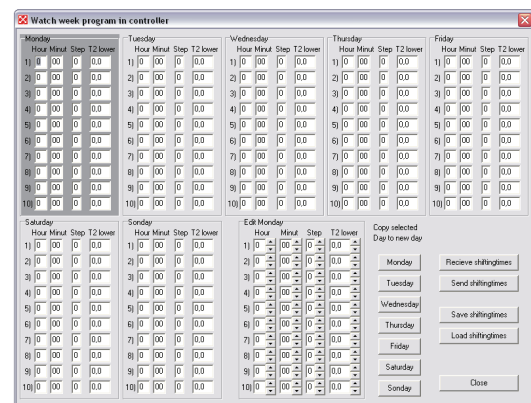The set-points for defrosting can be changed on the right of the image. Take care when changing these settings. The "Service menu" displayed is protected with a
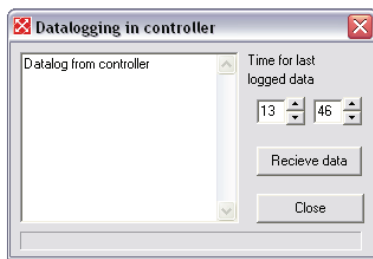
password.
The password is not supplied.

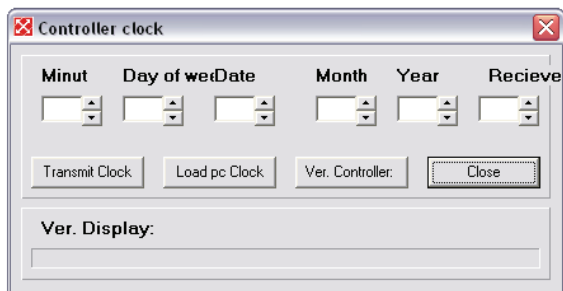*Clock/week program in control system* – Opens the box below.

In this box, the clock program in Optima can be made in a simpler and clearer manner. Select the day of the week to be programmed by clicking on it. Monday has been selected in the example. The clock program for Monday is selected using arrow-up and arrow-down in the lower window, immediately to the left of the buttons with the days of the week. Select 1, 2, 3 or 4 under level. If 0 is selected, the control system will skip the item. If 4 is selected, the device will stop. When the clock program has been made for the selected day, the day can be copied to the other days by clicking on the day of the week. The buttons on the right hand side of the window are used to receive and send the change times to and from the control panel and to retrieve and save the clock program to the hard disc. Terminate closes the window.

Data logging in control system (Only for the Optima and not the Optima Design) – Here you can retrieve the saved logging in the control panel to the program. The logging can cover a maximum of 11 days and is logged at 2 minute intervals. If the time of the last logging deviates from the selected time, this should be changed if possible. This is to accommodate the time-line at the bottom of the screen. This may e.g. be relevant if the logging is retrieved from a transmitted loose log circuit etc.

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Click on "Receive data" and the data will be loaded. Note that this can take up to 10 minutes. While it is loading, there will be no communication between the device's control system and the control panel.

Clock in controls – An easy way to set the clock in the controls.

Settings:
Comport control – Here you can select the Com-port to be used for the data logger.

See also the installation guide.

General set-up – The language and model can be selected here.

Folders for the log files can also be selected, e.g. it is recommended to create a folder under "Documents" got logs and get the program to suggest this folder as default.
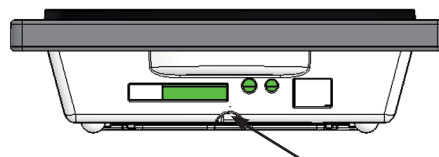
Generally:
Note that:
- The loggings are not connected to the set-up, i.e. although the solution is taken from either the hard disc or from the control panel, it may not necessarily match the selected control system. There is a risk therefore that analysis may be performed from a Combi, but values are displayed as if they originate from an Energy.
- If the logger circuit is removed from a panel to be read later, a note should be made of the time. This can be entered when taking readout from the software.
- The software terminates in the event of a change of settings such as language or model. This is not an error.
- The default setting for the software is Danish. This can be changed in "Settings".
- Certain anti-virus programmes will regard the log-files as viruses when they are sent by mail.

Direct data logging

Connecting to PC - Optima 250, 300 & 310 Design:
In order for Optima to communicate with the computer, a standard USB cable should be used with a mini-USB socket. This is fitted between the control panel and the computer.

Optima Design User Panel:

A: Terminal box. Connection to main circuit board

Connecting to PC - Optima Design/Opus:
In order for Optima to communicate with the computer it is necessary to have the data logging equitment, se page 3.

A low current cable 4 x 0.25 mm2 must be fitted between the device and the control panel. The maximum cable length is 50 metres.

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