

G450 DDS

Data Download Software

Operations Manual



GfG Instrumentation

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Introduction

Application and Use

The G450DDS program is used for the graph or chart display of gas concentration values. These values are either read from the data logger of the connected detector or (depending on detector type and software version) are transmitted online. G450DDS also allows the user to save the data in TXT or CSV format. These formats can be read by most database and spreadsheet programs.

For Your Safety

This manual must be read and understood by all persons who use, service, maintain and check this product. This detector can do the job it is designed to do only if it is used, serviced, maintained and checked according to the instructions given by GfG Instrumentation.

The warranties made by GfG with respect to the product are voided, if the product is not used, serviced, maintained and checked in accordance with GfG's instructions. The above does not alter statements regarding warranties and liabilities in GfG's general conditions of sale and delivery. Repairs must only be done by GfG Instrumentation or by factory trained persons. Modifications and changes of the product require GfG's permission. Unauthorized modification of this product will result in the exclusion of any liability for possible damage. Make sure that only genuine GfG accessories are used with the product. Repairs require the use of spare parts supplied by GfG.

Minimum System Requirements

	Operating system:	Windows 2000, Windows XP.
	Memory:	128 MB RAM for Windows 2000 or Windows XP
	Hard disk capacity:	20 MB minimum
	VGA adapter:	600 x 800 Pixel.
	One unused COM- or USB port	

Installation

GfG USB Driver Installation Guide

1. Be sure the "G450 Datalogger CD-ROM" is installed in CD-ROM drive.
2. Plug the GfG USB cable into your computers USB port.
3. A "New Hardware found" message appears on your computer screen.
4. Follow the wizard and select "Install from list (advanced)".
5. In "search best driver" screen, click on "search removable media".
6. A screen will appear "please wait".
7. A windows warning screen appears, select "continue anyway".
8. USB driver installation will begin.
9. Select "Finish" when prompted.
10. The message "Found new hardware" will appear again.
11. Repeat steps 4-9, exactly the same as the first time.
12. The message "New Hardware Installed and ready to use" appears.
13. You now have the USB driver installed properly, and can begin using your USB cable for G450 communication.

Locating the COM port for your USB device

You will need to identify and select the correct COM port when using the data program under the "options" menu before data retrieval can begin.

1. Click on "Start".
2. Using your mouse, right click on "My Computer".
3. Now, left click on "Properties".
4. Left click on the "Hardware" tab on "system properties".
5. Left click on the "Device Manager" box.
6. Locate the icon for "Ports" and left click on the "+" symbol.
7. You will see "GfG USB ctr" with a COM number next to it (COM4)
8. This is the COM port your USB cable is using.
9. When you open the G450 Datalogger program, select the "options menu", then select the correct COM port for your USB cable.

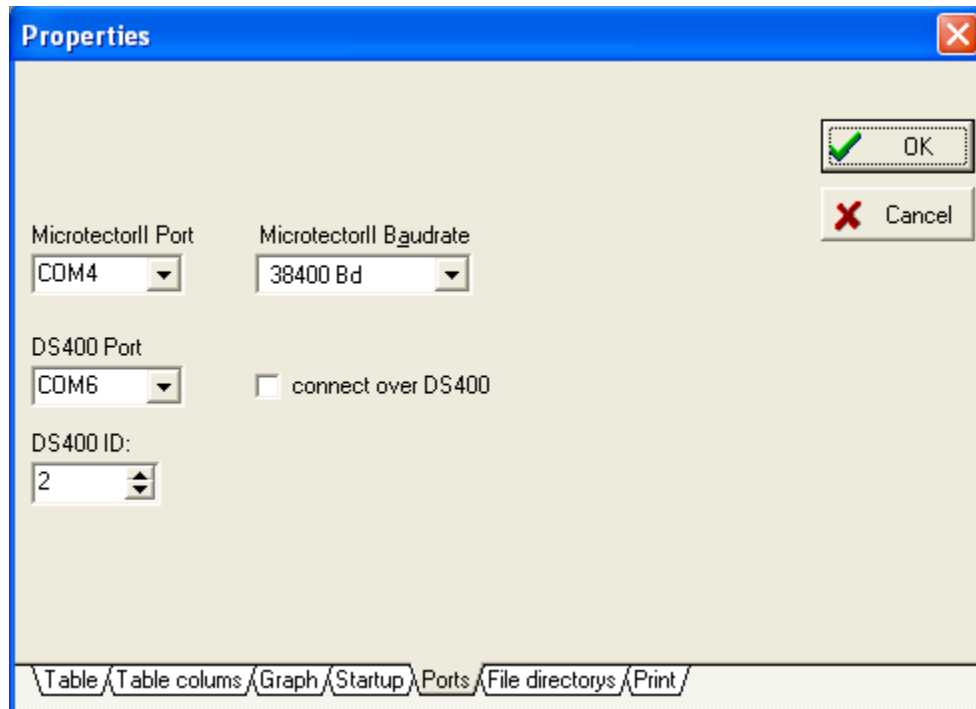
Running the Program

The program is started by means of a double click on the icon “Microtector II Interface”. The icon is created under “Start\All Programs\GfG Interface” and on the desktop. Once the program has started, the program screen is shown.

Software Configuration

Ports

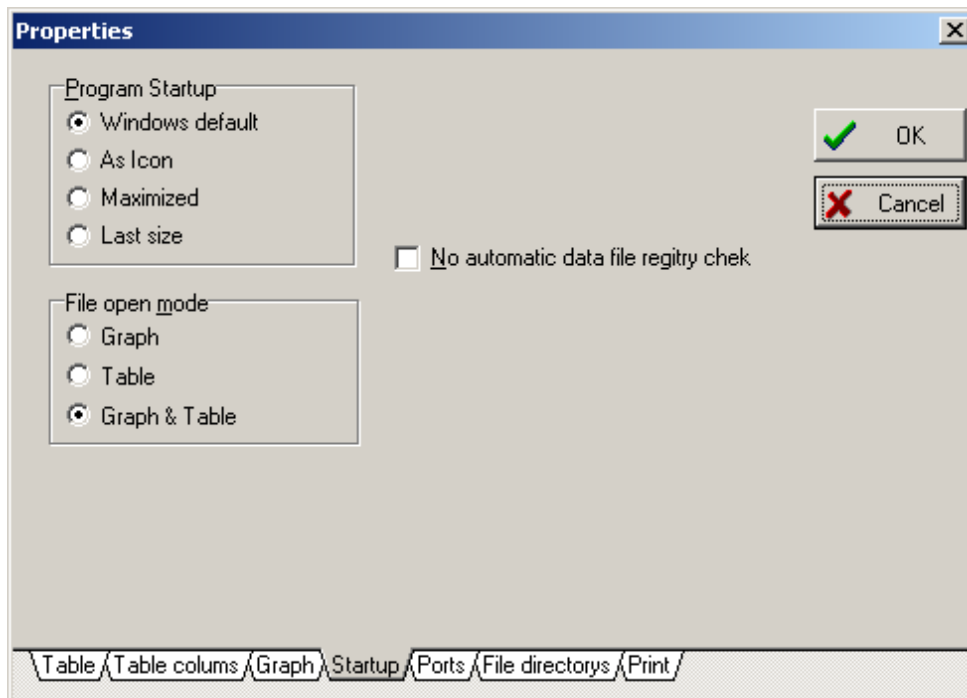
You must first set-up the hardware to be used. Click on ‘Port’ in the Options menu. The program opens the following dialog window:



1. From the G450 Port drop down, select the appropriate COM port for your USB cable. Make sure that you select a free port, as otherwise you will receive the error message “Interface not available or in use”.
2. In Baudrate field enter the transmission speed between the PC and the connected detector. The transmission speed must be set to the same value at the G450/G460 and in the interface program. The standard value of 38400 Baud should work in most cases.

Program Start Parameter

You can set the parameters that are to be used when the program starts up by selecting Configuration under the Options menu.



The parameters can be set:

Program Startup: Here you can define how the program is to be started. The following options are available:

Windows Default:	The program window will be opened in the standard size.
As Icon:	The program window is started as a symbol
Maximized:	The program window is started maximized.
Last Size:	The program window is started in last previous size.

File open mode: Here you can define how a new file or a file which has to be opened, is being presented.

Graph:	The file is shown as a graph.
Table:	The file is shown as a chart.
Graph & Table:	The file is shown as chart and graph.

You may chose any of these options once the file has been opened or created.

No automatic data file registry check: The activation of this parameter prevents that the registration, which is valid for the program, is checked during the start. This may be necessary, if you installed programs on your PC, which show the extension “.GDF” .

Saving

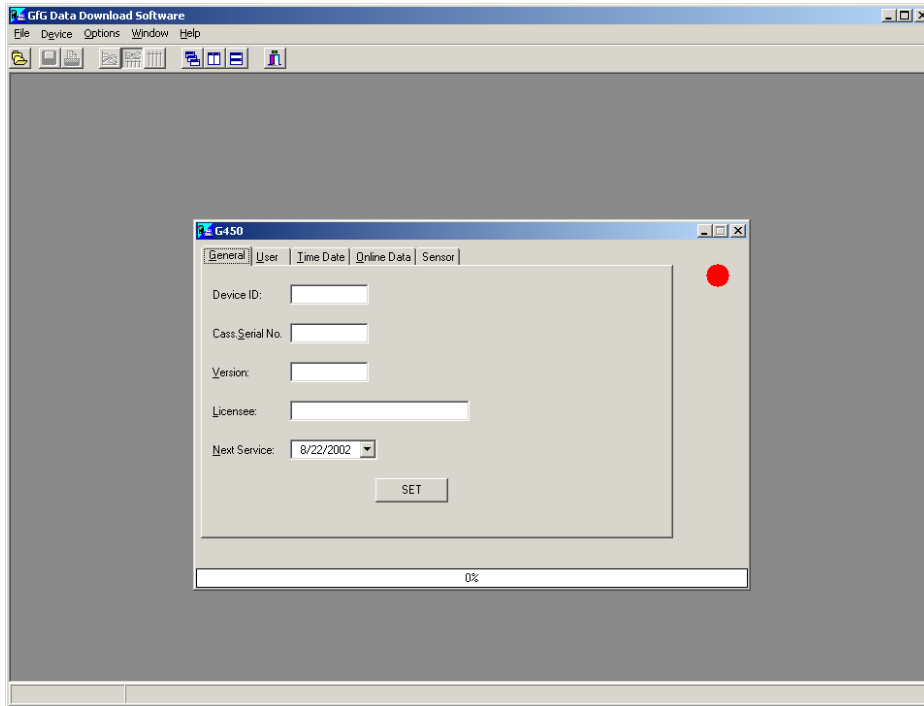
In this window you define where the files to be opened are being stored, or where new files are being saved.

The image shows a 'Properties' dialog box with a blue title bar and a close button (X) in the top right corner. The dialog is divided into several sections. The top section, labeled 'Directory:', contains two text input fields. The first field, labeled 'Datalogger:', contains the text 'C:\Documents and Settings\admin\My Documents\G450DDS'. The second field, labeled 'Online', contains the text 'C:\Documents and Settings\admin\My Documents\G450DDS\online'. To the right of these fields are two buttons: 'OK' with a green checkmark icon and 'Cancel' with a red X icon. Below the 'Directory:' section are two groups of radio buttons. The first group, labeled 'Additional directory:', has three options: 'No' (selected), 'Serialnumber', and 'Date [YYYYMM]'. The second group, labeled 'Additional filename:', has four options: 'No' (selected), 'Serialnumber', 'User', and 'Date [YYYYMMDD]'. At the bottom of the dialog is a tabbed interface with the following tabs: 'Table', 'Table columns', 'Graph', 'Startup', 'Ports', 'File directories' (which is currently selected), and 'Print'.

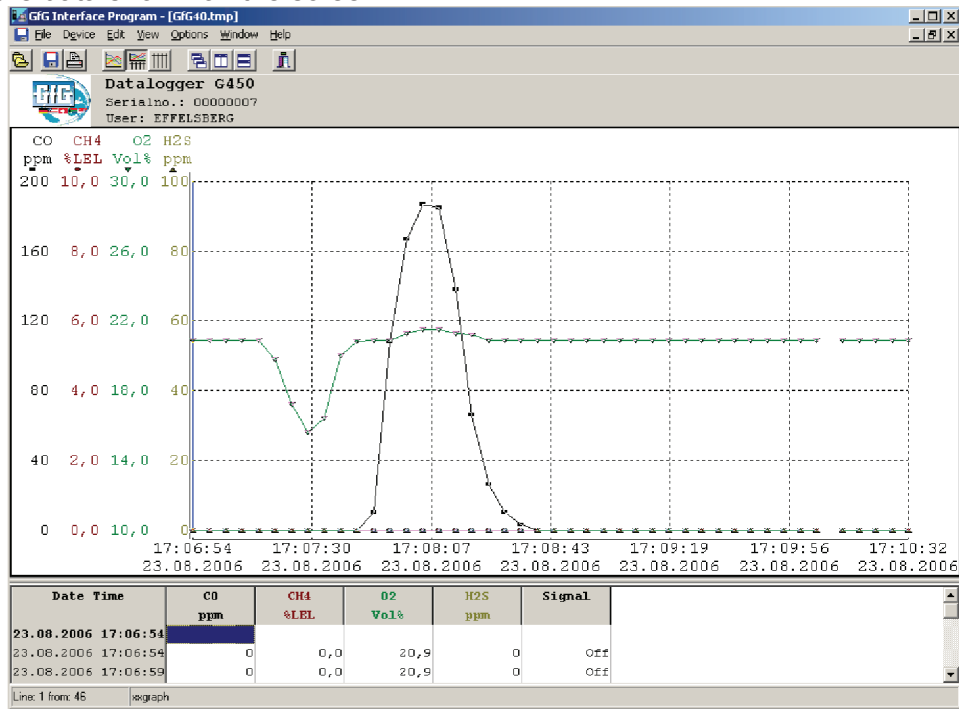
You can enter two directories. In field "Online" enter the directory name for online data. In this directory all online data will be stored with the system date as the file name. In field "Datalogger" enter the directory name for files which are formed from the datalogger. Usually the files from the data logger should be stored in My Documents\G450DDS and the online data should be stored in My Documents\G450DDS\online . In case the entered directory does not exist yet, the program will prompt you to create the directory. To search for a directory, double click on the entry button. A window pops up and you can select the directory. To organize the files from the datalogger on the hard disk, you can enter a directory which is suggested when storing the file. You may also get the file name to be suggested automatically. Please note, that in this option only the first 8 letters of the user can be entered.

Reading the Datalogger

For transferring data from the G450/460 to the PC, connect the transfer cable to the USB port of your PC and place your monitor in the charging cradle; then connect the cable to the charging socket of the charging cradle. For data transfer the Microtector G450 has to be turned on. Go to menu “Device” and select option “Microtector II Read Datalogger”. The following window pops up:



The bar graph indicates the progress of reading the detector parameters. Once the parameters are read, the content of the datalogger is being transferred. When the data transfer is completed, the window is minimized to symbol size, and the data shown on the screen.

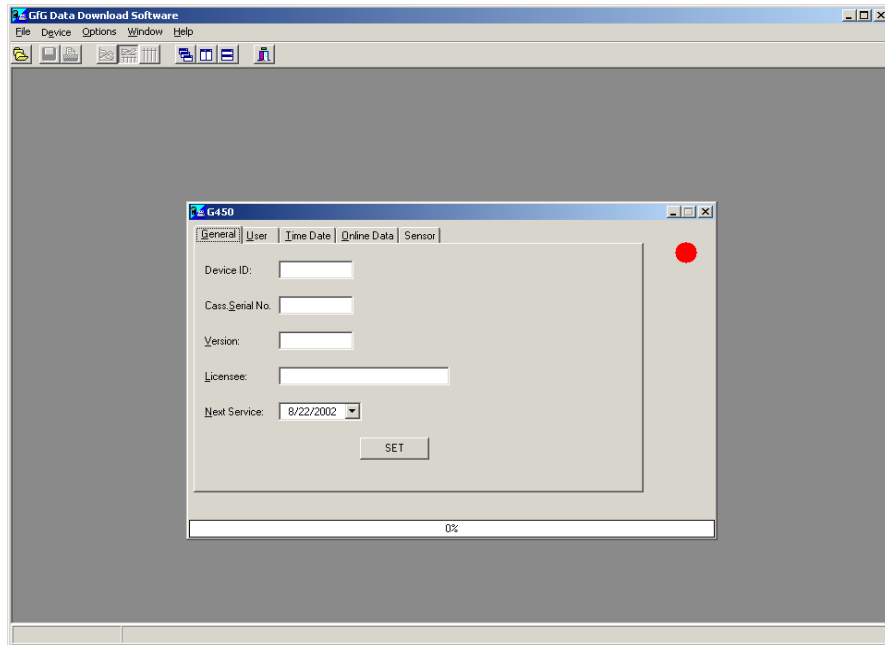


If the error message “No Datalogger option!” is indicated, contact GfG Instrumentation. Save the data by choosing Save in the File menu. Enter the file name and click on OK to save the data.

G450 Settings

General Information

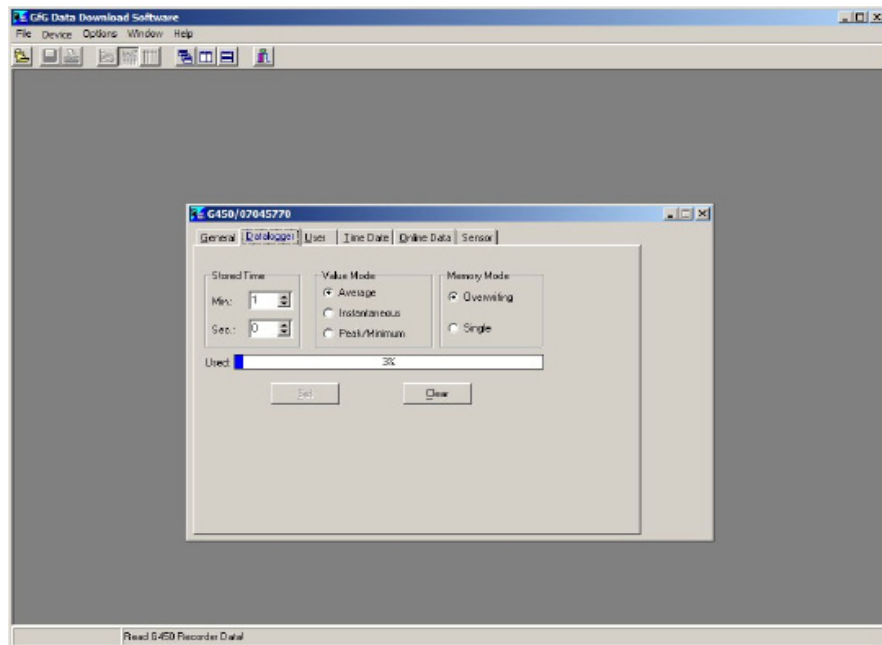
Here you will find general information about the detector



You may enter a new date for the next service date in Next Service field.

Adjusting the Datalogger

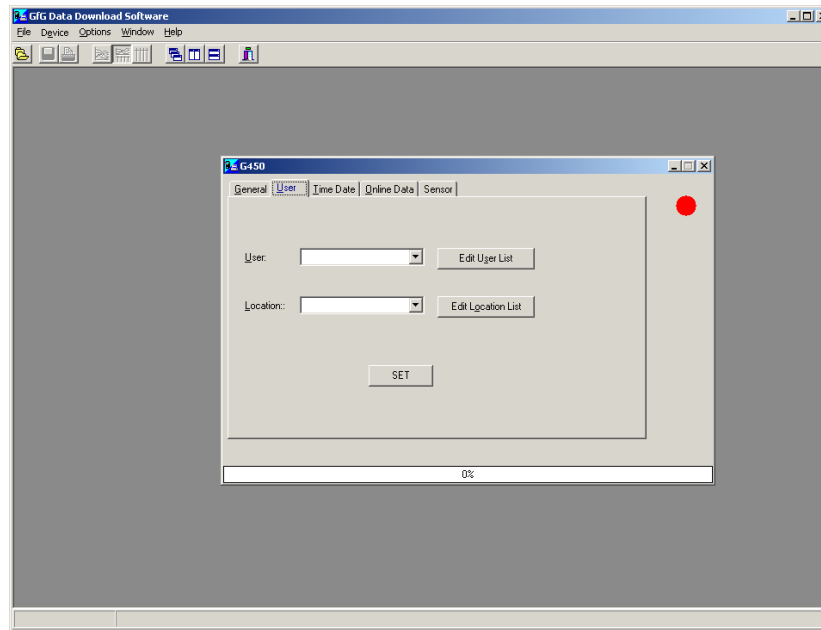
In this window you may change the parameters of the datalogger and clear the data logger.



You may change the interval at which the monitor will record data, the type of data recorded and how to handle the data information. Once the changes have been made, click Set. To clear the datalogger, click on Clear. The bar graph indicates the currently used capacity of the datalogger.

User and Location

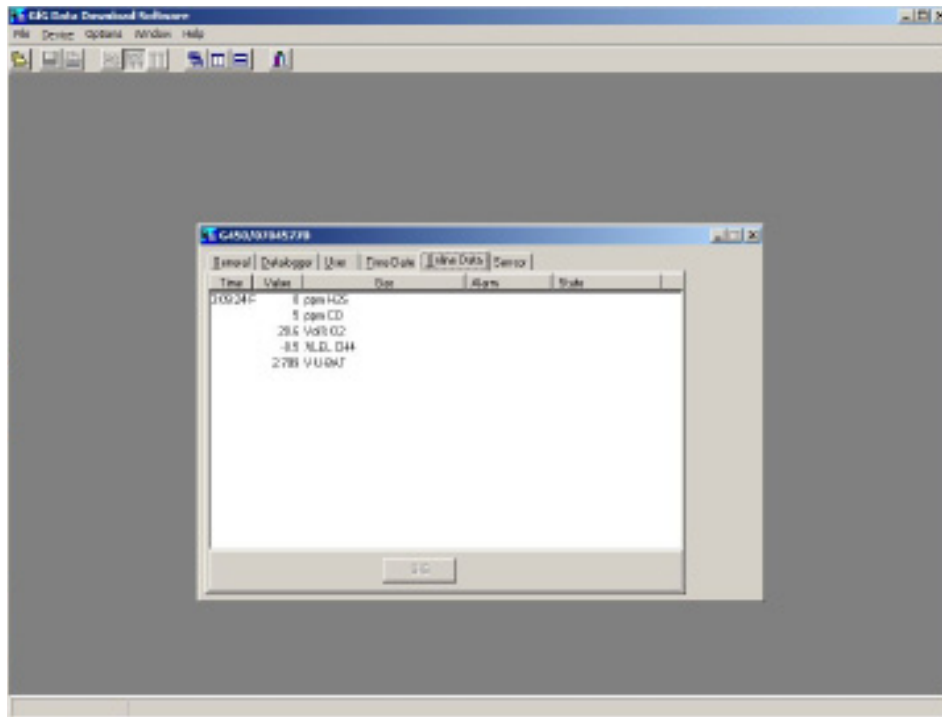
In this window you may change the user identification and the location.



The detector provides lists for users and locations. From the drop down lists you can select a user and a location. You may edit the list of users and locations with the use of Edit User List and Edit Location List buttons.

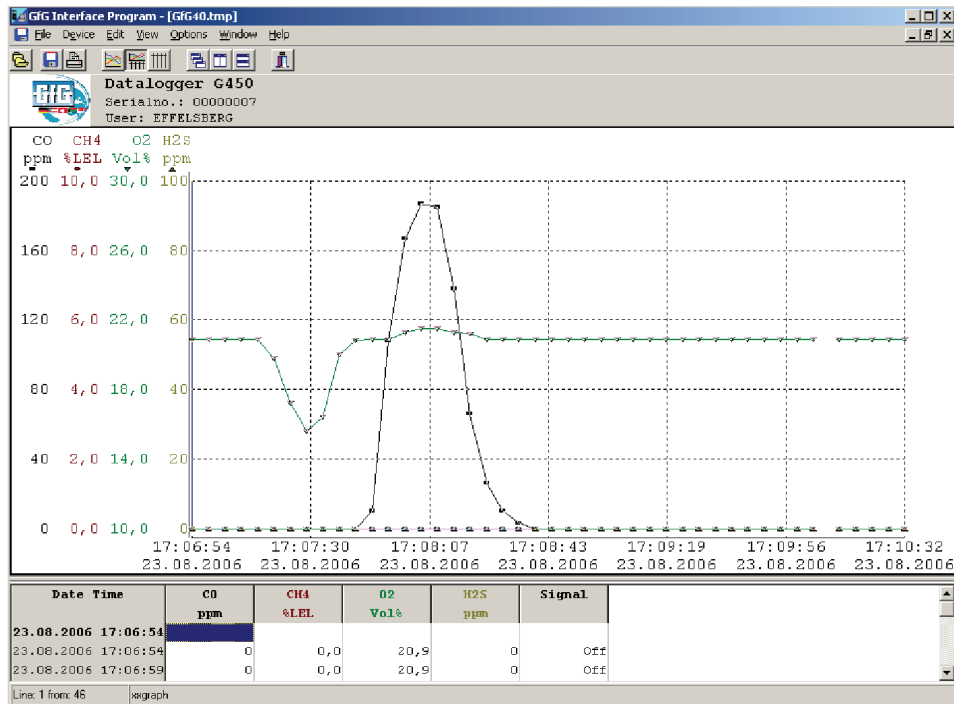
Online Data Transmission

Activating this feature transfers the current measurement values of all activated sensors as well as the battery voltage from the G450 to the PC.



Display of Measurement Values

The measurement values are shown in the data window; it does not matter whether they come from a data file or from an online function. The picture below shows a data window of the G450 datalogger.



You may use the mouse to change the width of the columns. Move the mouse to the separation line of the required column within the headline until the mouse cursor changes. Press the left mouse key and move the mouse to change the width of the column. In the graph you can open a context menu by means of the right mouse key. Here you can choose those columns which are to be shown as a curve. A maximum of six columns can be shown simultaneously. This menu also allows for changes to the parameters of the curve (color, symbol, etc.).

Exporting Data

For saving the file in ASCII format, go to File menu and select Save As. Select either "TEXT FILE *.TXT" or "TEXT FILE *.CSV". The file will then be stored in the selected format. You do not need to indicate the file extension. Microsoft EXCEL from version 5.0 accepts the CSV format best, while version 2.0 prefers the TXT format. The difference between these data formats is the separator. The TXT format uses "Tabulator (#9)", and the CSV format uses ";" as the separator.

File List

This provides information about the installed files and changes made in the system.

File Name	Function
G450DDS.EXE	User program
G450dr.Dll	Library file for Microtector G450
GASTAB32.DLL	Includes types of gases and units
Team32.DLL	Administration of several detector users

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GfG Instrumentation

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