Operations manual

G450/G460 DDS

Valid from Version: 3.1.15

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Introduction

Application and Use

The program G450DDS 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 (depend-ing on detector type and software version) are transmitted online. G450DDS allows to store the data in TXT or CSV format. These formats can be read by the common pro-grams like Microsoft EXCEL® or Microsoft ACCESS®.

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Minimum System Requirements

Operating System:	MS Windows 2000x, MS Windows XP.
Memory:	128 MB RAM für MS Windows 2000 oder MS-Windows-XP
Hard disk capacity:	mindestens 20MB.
VGA adapter:	600 x 800 Pixel.
Ports	One free COM or USB port

Installation

Independent of the used hardware install the software first. Insert disk 1 in your disk drive and start the program Setup.exe. Should the program be supplied on a CD, insert the CD in your CD drive. Should Autostart not be possible, start the program Setup.exe directly from the CD. For operating systems based on Windows NT you need certain ad-ministrator rights for installation. Once the Setup program is started, follow the instruc-tions on the screen. If there are special installation instructions for your program version, you will find these in the file README.TXT on the disk or CD.

USB Installation

Now connect the USB adapter to your PC. Windows recognizes the new hardware and asks for the driver. The driver is found in directory C:\Programme\GfG\DDS\\usb, if you kept the suggested directory during installation. Instruct Windows to install the driver from this directory. There are 2 driver components being installed. The first one is the USB driver, the second one is the virtual COM port. Windows XP will show the message that the driver did not pass the Windows-Logo test. Just ignore this message. After successful installation you can see from the device manager (Start->Systemsteuerung->System->Gerätemanager), which Com port was reserved for the USB adapter. The description of the Com port, e.g.: COM4, is needed for software setting.
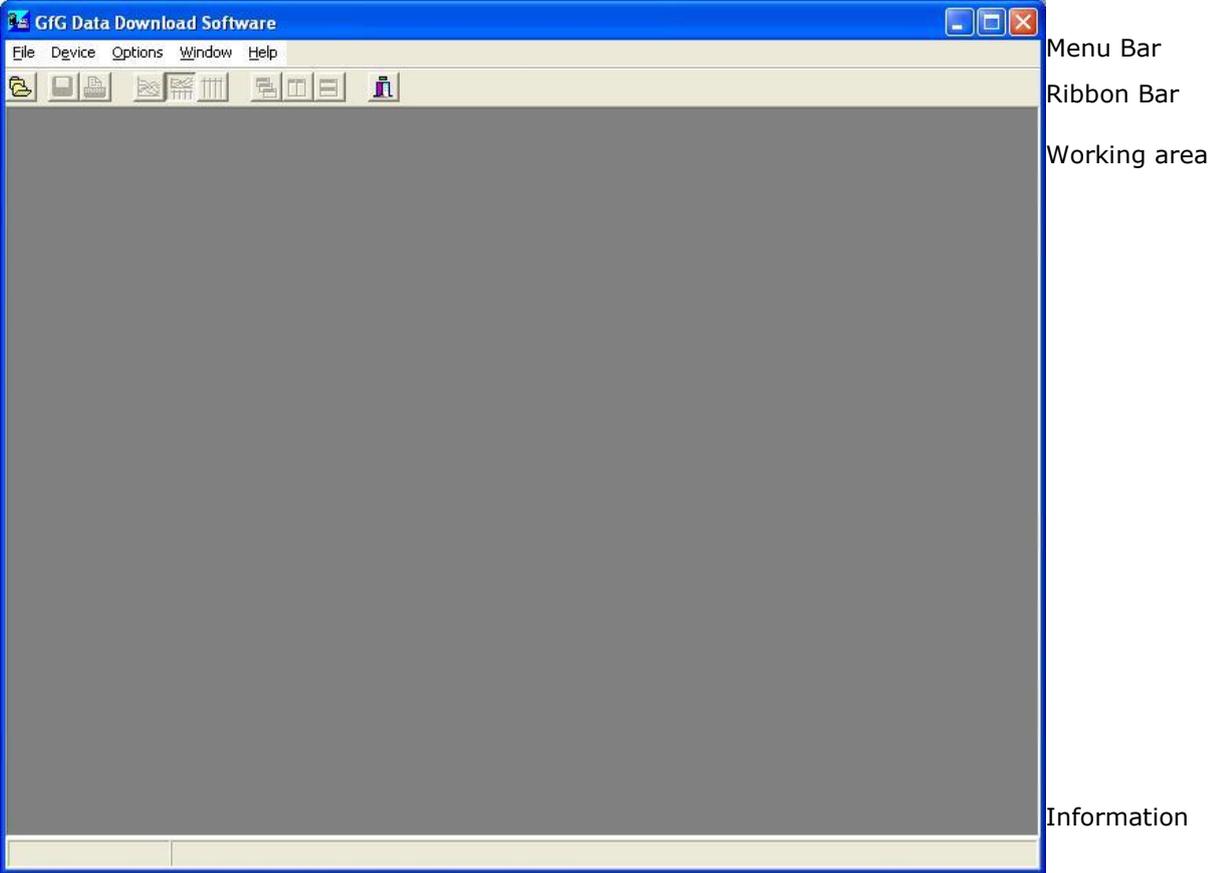
RS232 Installation

Connect the RS232 cable to a free port. The description of the Com port, e.g.: COM2 is needed for software setting.

Start G450DDS

The program is started by means of a double click on the icon "GfG G450 Download Software". The icon is created under "Start\Programme\Interface" and on the desktop. Once the program was started, the program surface is shown.
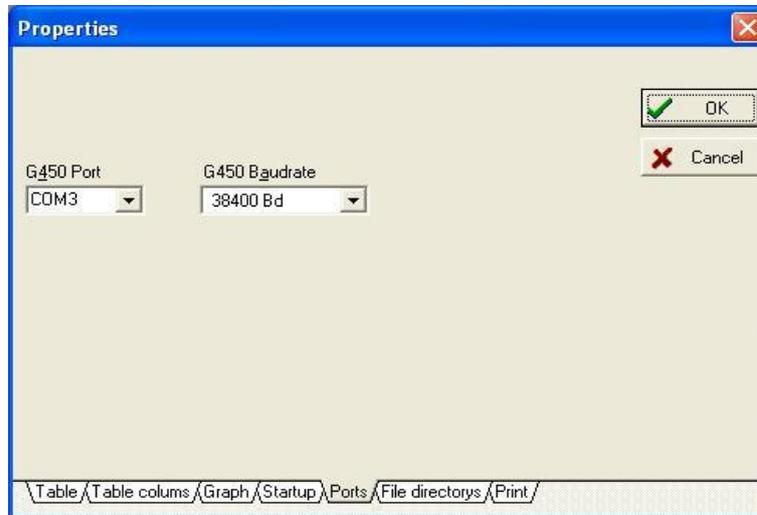
User Interface

The program surface is divided in 4 areas:

Menu Bar

Ribbon Bar

Working area

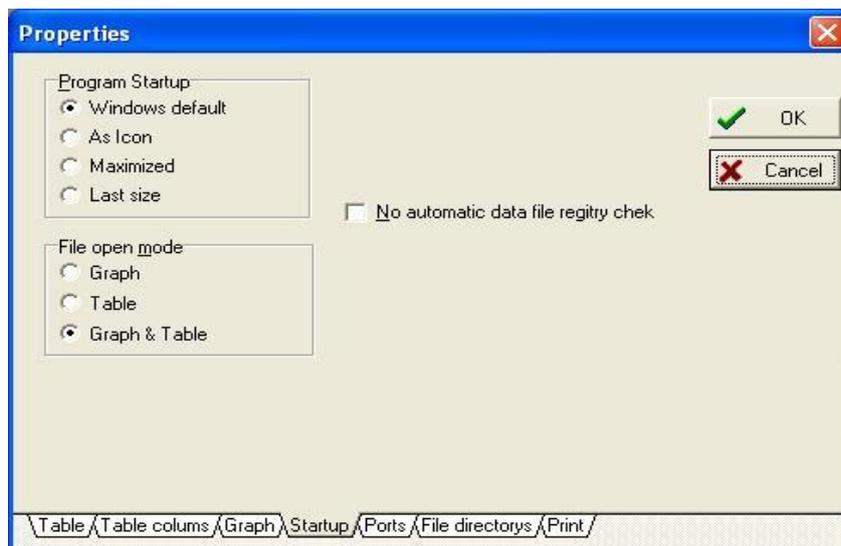Information

Software configuration

Ports

At first you have to set the used hardware. Click on the menu point Port in menu Options. The program opens the following dialog window:

1. In the field Properties you can select the port. Possible entries are:
   COM1 to COM9. Make sure that you select a free port, as otherwise you would re-ceive the error message: "Schnittstelle nicht vorhanden oder in Benutzung" - Port not available or in use.
2. In the field Baudrate enter the transmission speed between the PC and the connected detector. The transmission speed must be set to the same value at the Microtector G450 and in the interface program. The standard value of 9600 Baud is expected to be correct for most cases.

Program Start Parameter

In the configuration window on page Start you will find the parameters which are to be used when starting the program.

The parameters have the following meanings:

1. **Program Startup:** Here you define how the program is to be started. 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 ist previous size.

2. **File open mode:** Here you define how a new file or a file which has to be opened, is being presented. The following options are available:
Graph: The file is displayed as a graphic.
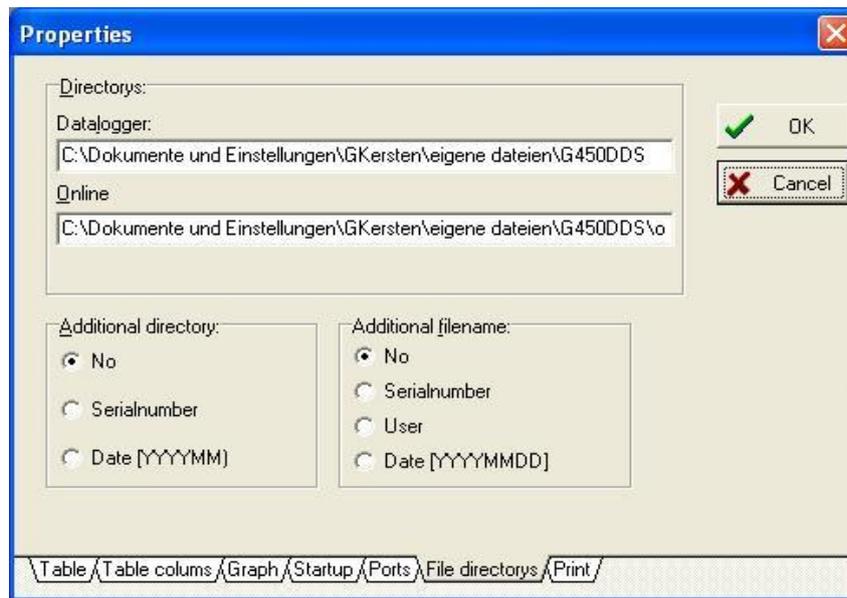*Table:* The file is displayed as a chart*.*
Graph & Table: The file is displayed as a chart as well as a graphic.
ou may easily chose any of these modes once the file has been opened or created.

3. **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".*

Filing

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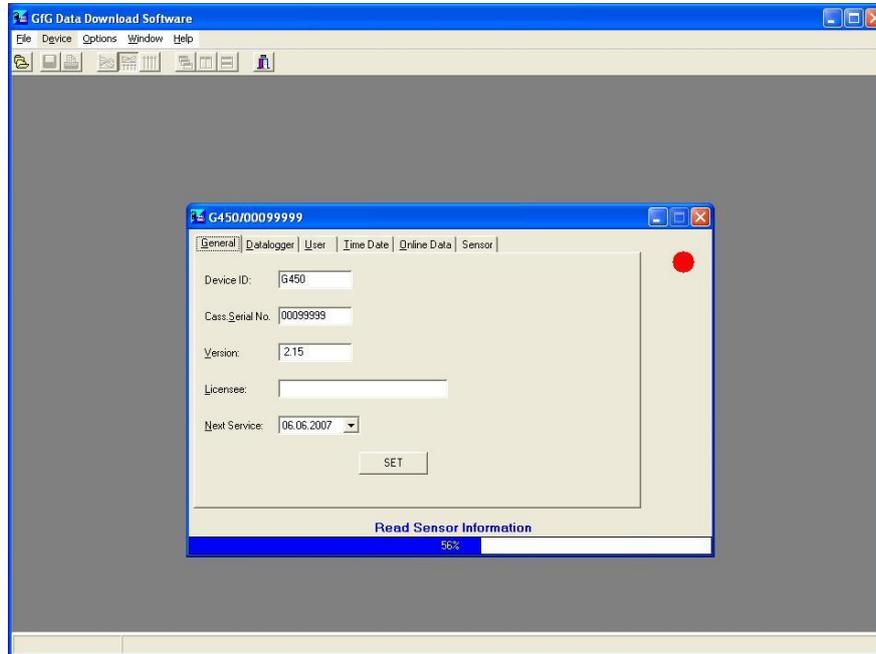

You can enter two directories. In field Online you enter the directory name for online da-ta. In this directory all online data will be stored with the system date as the file name. In field Datalogger you enter the directory name for files which are formed from the data logger. Usually the files from the data logger should be stored in directory

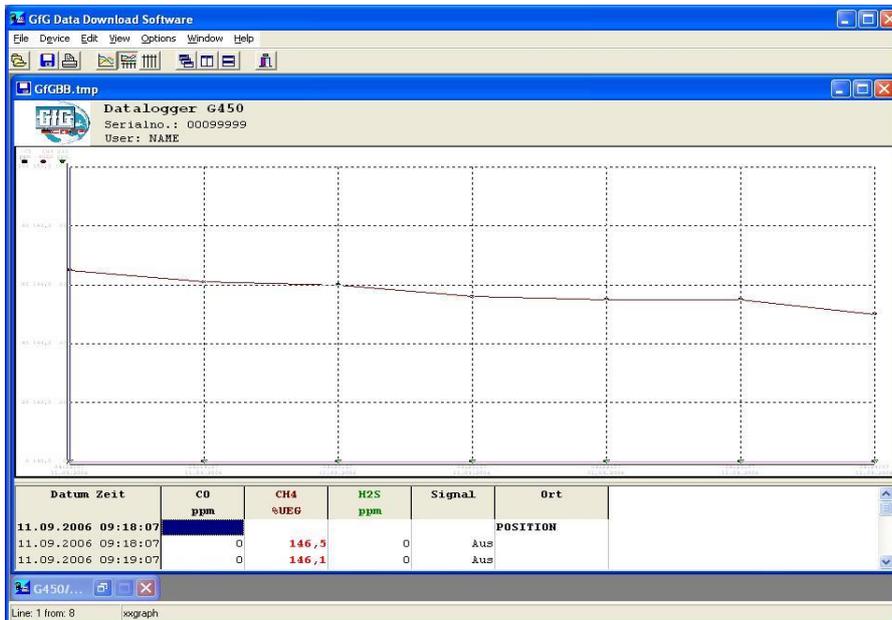<Eigene Dateien>\G450DDS and the online data should be stored in directory

<Eigene Dateien>\G450DDS\online . In case the entered directory does not exist yet, the program asks whether you want to install it. For searching a directory, dou-bleclick on the entry button. A window pops up and you can select the directory. To or-ganize the files from the data logger 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 auto-matically. Please note, that in the option User you only enter the first 8 letters of the user.

Read data logger of Microtector®

For transferring data from the Microtector G450 to the PC, connect the transfer cable to the serial port or to the USB port of your PC and put the smart charger cap on the Micro-tector G450; then connect the cable to the charging socket of the Microtector G450. For data transfer the Microtector G450 has to be turned on. Go to menu "Device" and select menu point "G450 Read Datalogger". The following window pops up:

The bargraph indicates the progress of reading the detector parameters. Once the pa-rameters are read, the content of the data logger is being transferred. When the data transfer is completed, the window is minimized to symbol size, and the data are being shown on the screen.

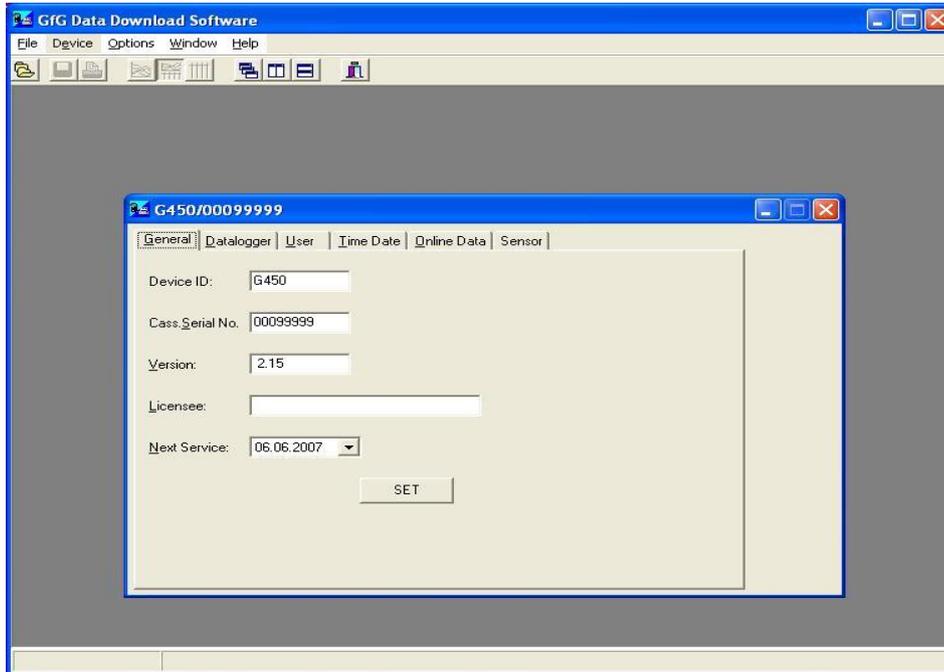If the error message **"No Datalogger option!"** is indicated, contact your local GfG ser-vice point.

Now you can save the data by chosing from menu Datei, Speichern. In the dialog window you may enter the file name. When you click on Ok, the file is stored.

Settings of the Microtector II G450

You can set different adjustments of the Microtector G450 at the PC. Read the data logger and then maximize the window by means of a double click on the symbol. You may also go to the menu „Device\G450 Connect" and open the window without reading the data logger. The areas which allow settings to be changed, are selected from a register. The information shwon in the following pictures depend on the Microtector G450 configuration and may therefore differ from what you see on your screen.
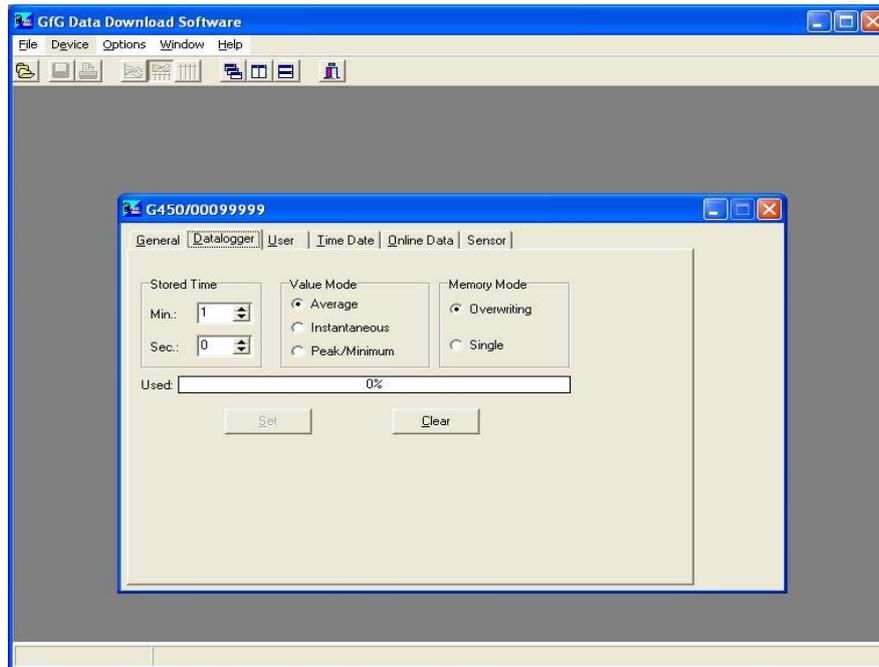
General Information

On the register card General you find general information about the detector.

Here you may enter a new date for the next service in field Next Service". By means of button Set this date is transferred to the detector.
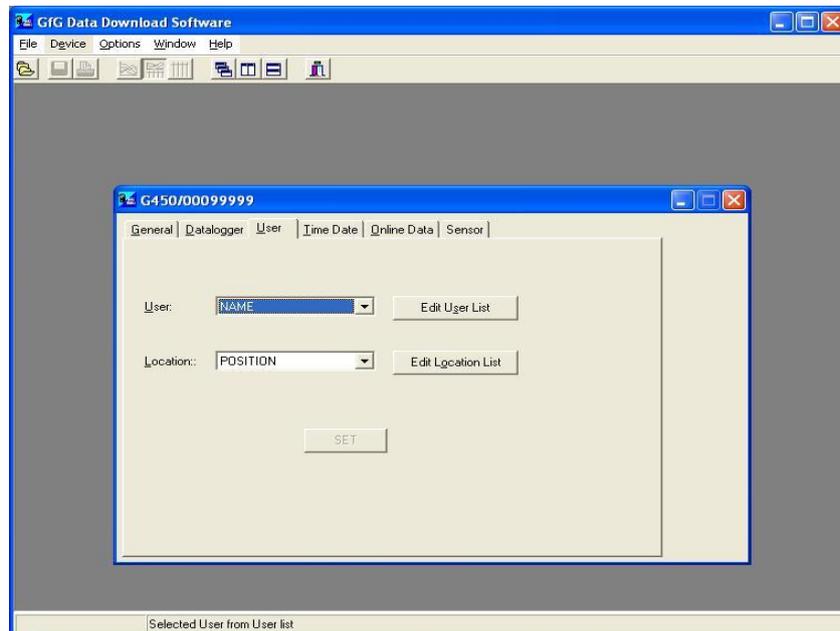
Data logger adjustments

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

You may also change the interval for storing measurement values and mode. Once the changes have been done, click on the button Set. For clearing the data logger simply click on the button Clear. The bargraph indicates the currently used capacity of the data logger in %.
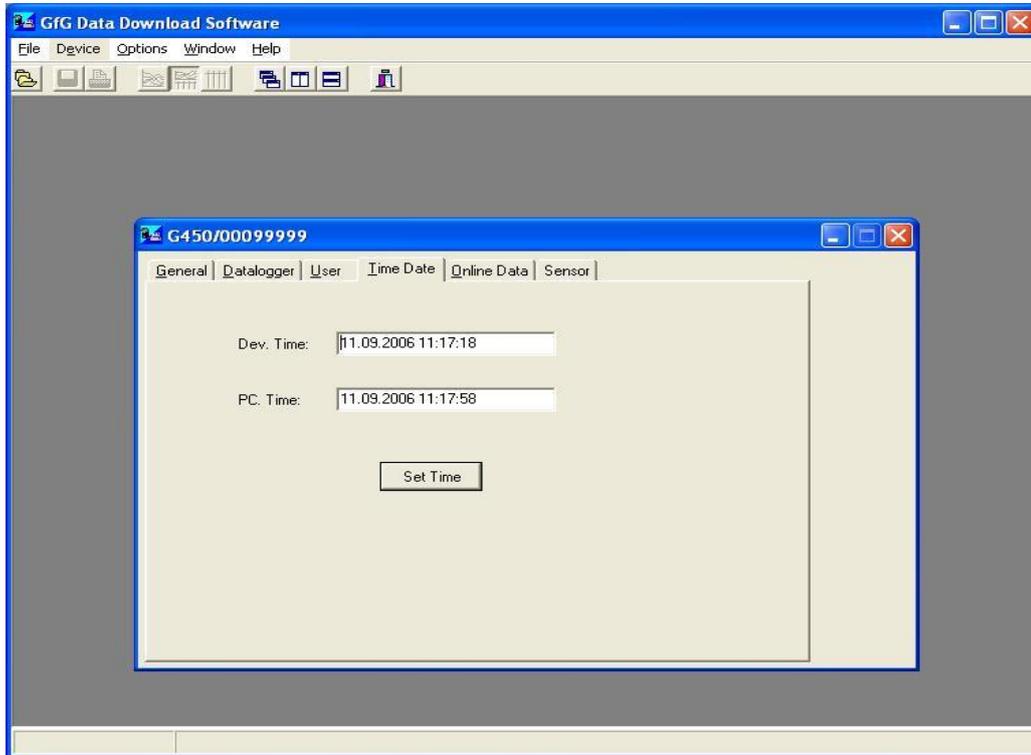
User and Location

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 se-lect a user and a location. Use keys Edit User List and Edit Location List to change the lists in the detector.
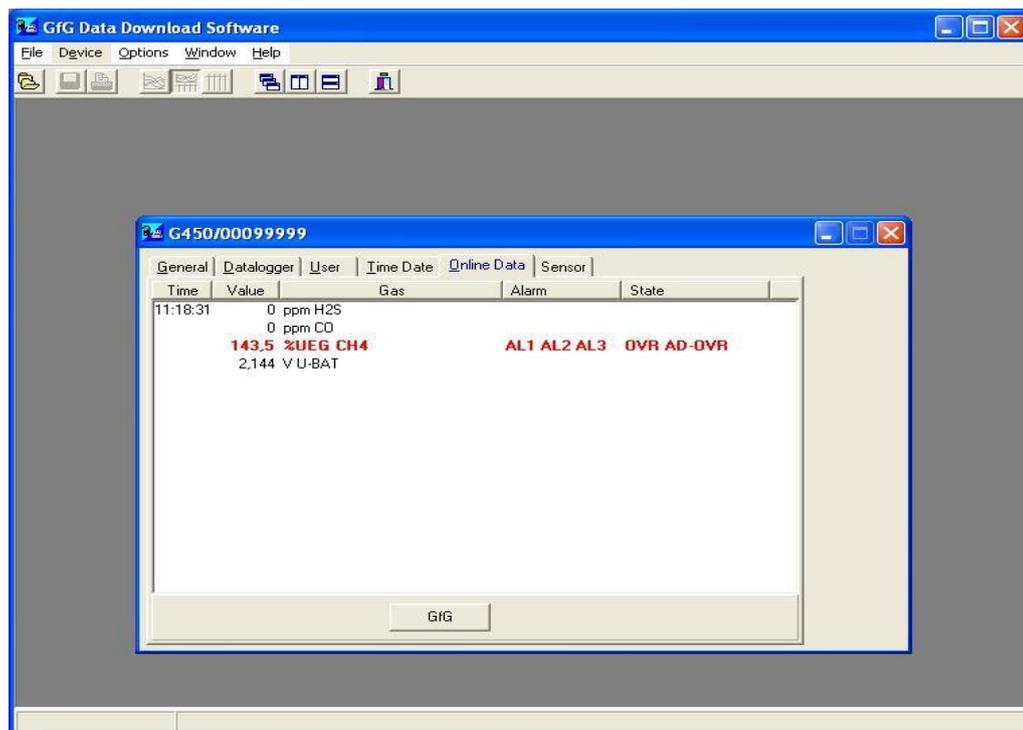
Time and Date

By means of the register card Time Date" you can check and set the date and the time of the Microtector G450.

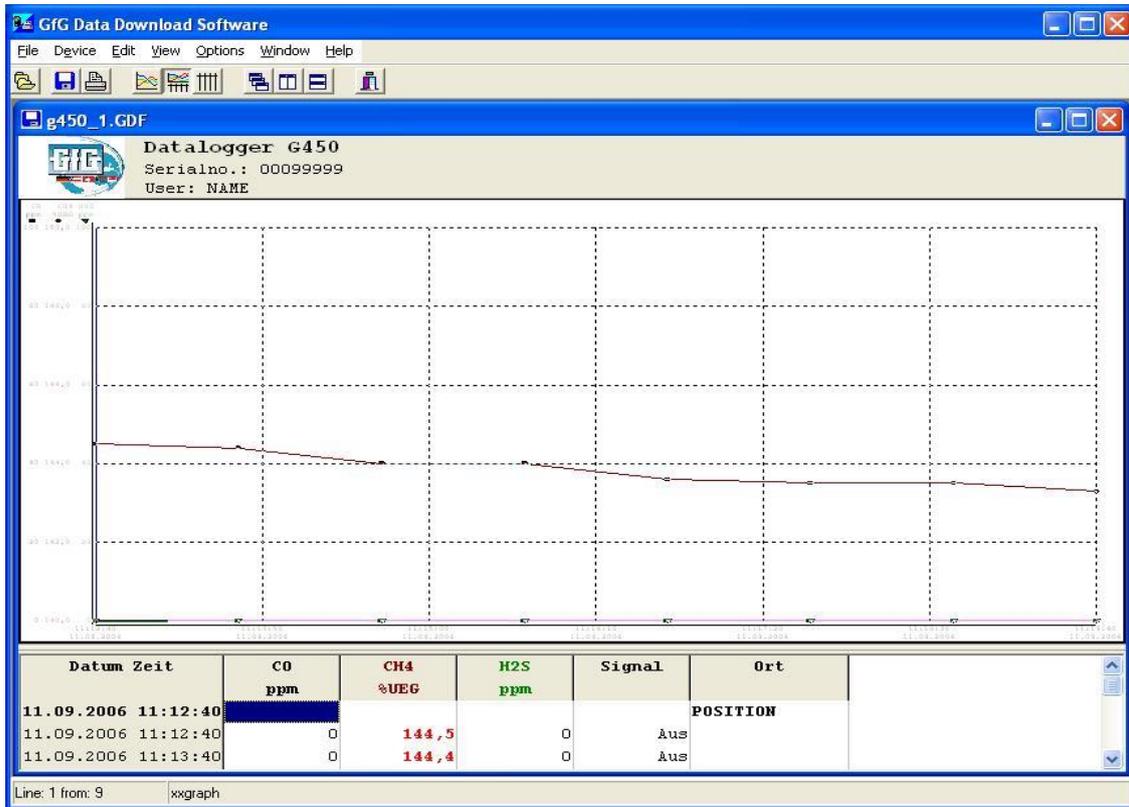Click on the button Set Time to synchronise date and time of the Microtector G450 with the PC.

Online Data Transmission

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

Display of measured values

The measured values are shown in the data window, no matter whether they come from a data file or from an online function. The picture below shows a data window of the G450 data logger.

You may use the mouse to change the width of the columns. Move the mouse to the sep-aration line of the required colum within the headline until the mouse cursor changes. Press the left mouse key and move the mouse to change the width of the colum. In the graph you can open a contect menu by means of the right mouse key. Here you can chose those columns which are to be shown as curve. Max. 6 columns can be indicated simultaneously. This menu also allows to change the parameters for the curve (colour, symbol, etc.).

Exporting Data

For storing the file in ASCII format, go to menu Datei and select menu point Speichern als. Select either "TEXT FILE *.TXT" or "TEXT FILE *.CSV" from list box Dateityp. The file will then be stored in the relevant format. You do not need to indicate the file extension. Microsoft EXCEL from version 5.0 accepts the CSV formatbest, 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 separator.

File List

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

File name	Function
G450DDS.EXE	User program
G450dr.Dll	Library for the Microtector II G450
GASTAB32.DLL	Contains gas types and parameters
Team32.DLL	Administration of multiple users