

<input type="checkbox"/> Lite edition <input type="checkbox"/> Standard edition <input type="checkbox"/> LogMan Module	Software Activation Key <div style="border: 1px solid black; height: 20px; width: 100%;"></div>
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DBGas 2004

Customers and Boilers Manager

Software for Flue Gas Analysers
Instruction Manual MM850523 ed.02



NOTA INTRODUTTIVA

ATTENTION : THIS MANUAL IS REFERRED TO THE SOFTWARE PACKAGES DBGAS 2004 VER 4.0.0.

This publication contains operating instructions for the Software Package for EUROTRON series flue gas analysers to be used having a WindowsTM 98/2000/XP Personal Computer.

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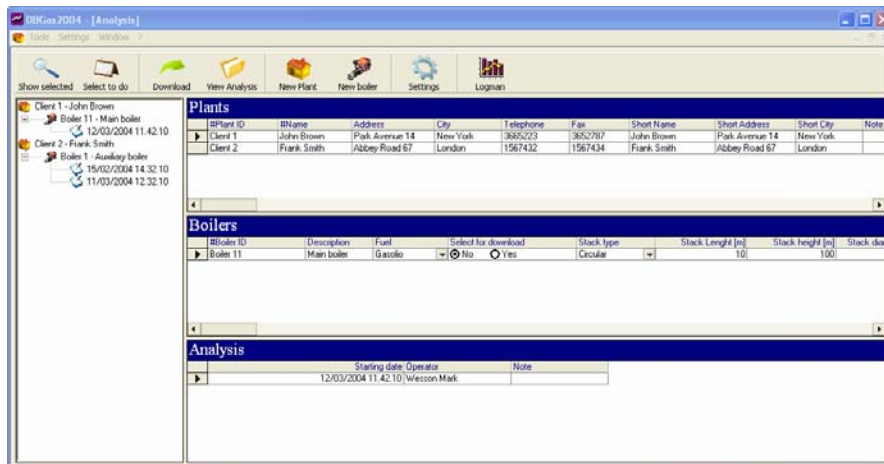
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1 GENERAL

DBGas 2004 is a PC Windows compatible software to manage all checks and measures activities on boilers and to transfer data from and to Eurotron Gas analyzers. The software is designed for a complete and efficient managing and recording of the boilers analysis data of your clients. **DBGas 2004** allows you to have a no limits database on your PC with all customer and boiler's information, to select up to 40 boilers (each one is associated to a Tag) to be checked, to assign an operator name and transfer the data to the analyzer. The operator can store the analysis data and print the report; after the analysis he can transfer the data to the PC. The software will assign the analysis to the correct boiler in the database. Operator can view and print the data. Therefore, it is possible to maintain an historical archive for several years.



Plants/Boilers Database

The fundamental plant (or Customer) and Boiler data can be manually input from the PC. It is possible to select one or more boiler for downloading to the flue gas analyser.

The database can be imported or exported from (to) a CSV format.

Plant

Plant Name

Address

City

Short address

CAP PV

Telephone Fax

Short name

Short city

Boiler

Boiler ID Fuel

Description

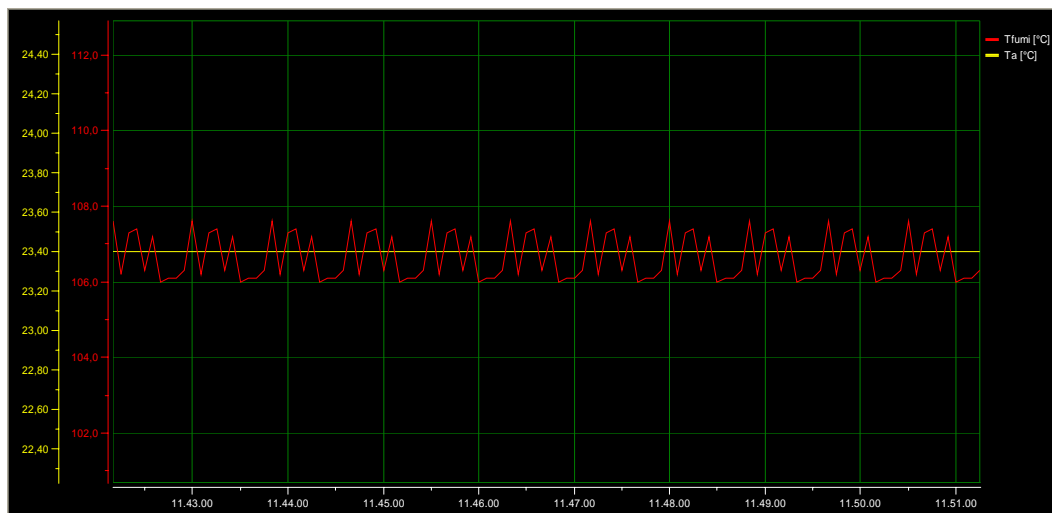
Add Create Short Name Cancel

Analysis database

Optionally (DBGas 2004 Standard version) you can add the analysis database module. You can upload the data from the flue gas analyser and manage them (store, read, print, graph) easily with your PC.

Graphic

The DBGas 2004 Standard version includes the graphic module. This software module allows you to display the analysis data as a graphic trend. It is useful when you perform long term analysis with the EcoLine 6000 and GreenLine 8000 analysers.



LogMan

The DBGas 2004 LogMan version includes the real time data acquisition module. It is useful when you perform long term analysis with the EcoLine 6000 and GreenLine 8000 analysers.

1.1 System requirements

The following hardware and software are required to use DBGas 2004:

Operative system Windows™ 98/2000/XP; Processor, such as an Intel Pentium II or Advanced Micro Devices (AMD) processor; RAM 256Mbyte; 150 Mbyte free hard-disk space, CD-ROM drive, and dual RS232 serial port.

1.2 Installing the Software

Before starting installation, close all the programs active.

To install the software:

- ☐ Insert the DBGas 2004 CD-ROM in your drive;
- ☐ Follow the instructions on the screen to install the software.

If the DBGas 2004 setup program does not start automatically, follow these steps:

- ☐ Click the Start button
- ☐ Point to RUN
- ☐ Write D:SETUP.EXE (if "D" is the drive letter for your CD player).
- ☐ Click OK.
- ☐ Follow the instructions on the screen to install the software.

The software is installed. You can run the DBGas 2004 from the program menu.

1.3 Uninstalling the Software

To remove DBGas 2004 program :

- ☐ Click the Start button
- ☐ Point to Programs
- ☐ Point to DBGas 2004
- ☐ Click Uninstall
- ☐ Click OK button

The software is removed, including all related entries in your system registry.

1.4 Registering the Software

When installed the DBGas 2004 will run in Demo Mode.

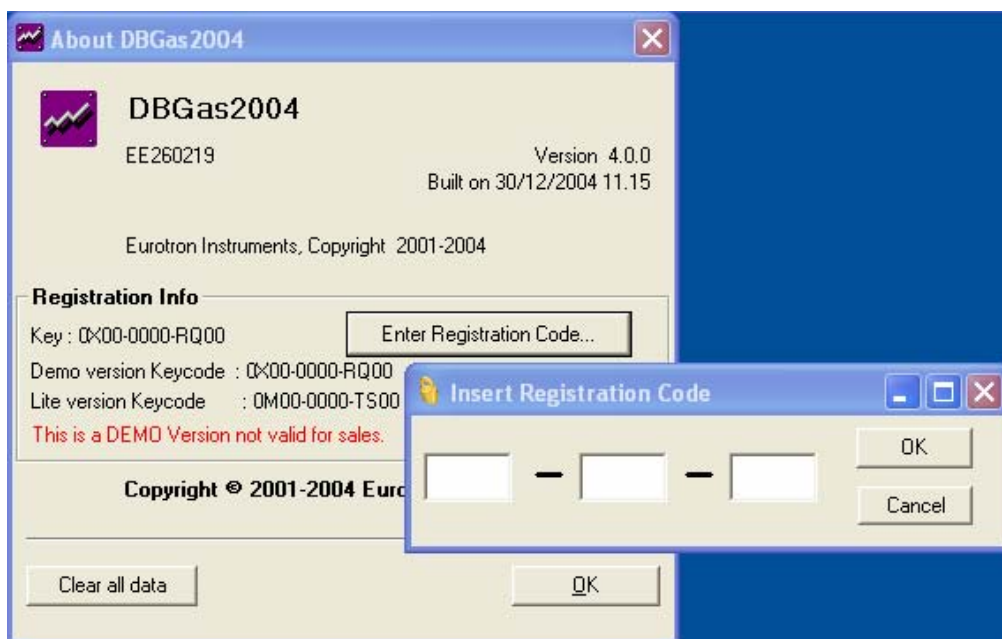
You should insert the registration key code included in your DBGas 2004 package.

This code should be entered to activate the program and to run in the different edition.

To register the software:



- ☐ Run DBGas 2004
- ☐ Click Help
- ☐ Click Info ...
- ☐ Click the "Enter Registration Code" button and write the registration code.



Demo Mode: DBGas 2004 includes all options but the database is limited to max 5 Plants.

Lite edition: DBGas 2004 do not allows the data download from the Flue gas analyser.

Standard edition: DBGas 2004 includes all options without database limits

1.5 Compatibility

DBGas 2004 can run with most of the Eurotron flue gas analysers.

The following list show the compatible instruments for this software revision.

Compatible Flue Gas Analysers

UniGas 1000	EcoLine 2000	GreenLine 2000
UniGas 2000+	EcoLine 4000	GreenLine 4000
UniGas 3000+	EcoLine 6000	GreenLine 6000
		GreenLine 8000

1.6 Equipments to PC connections

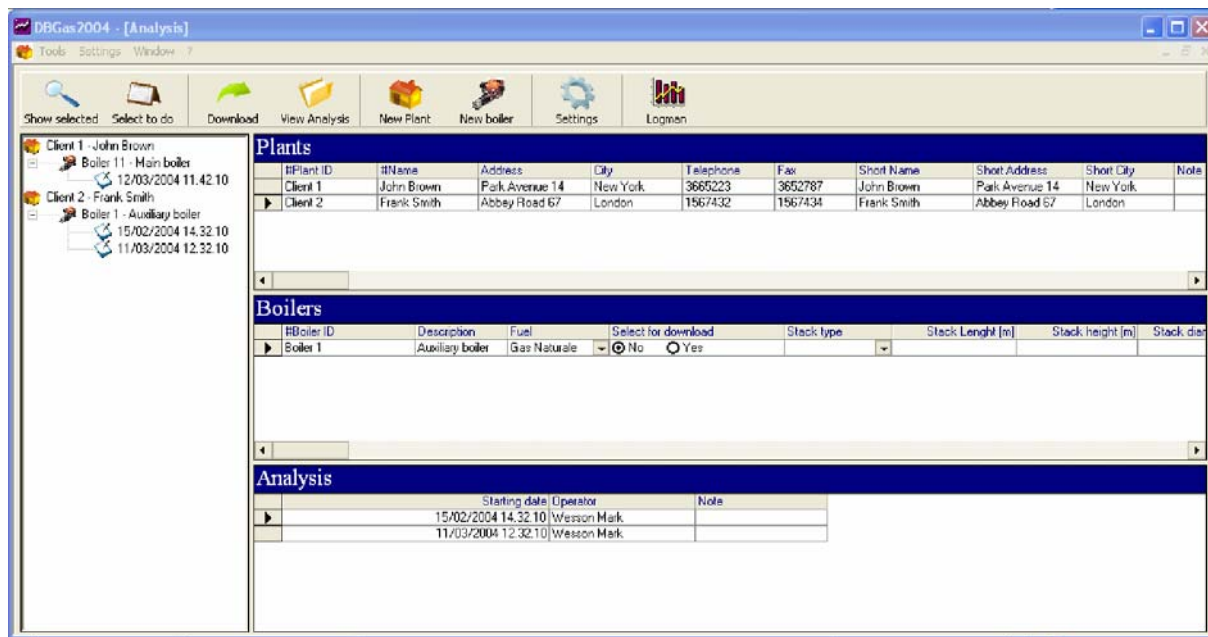
Before start with the automatic procedure check for the dual serial port (RS232) on your PC and for the serial communication cables for the calibrators.



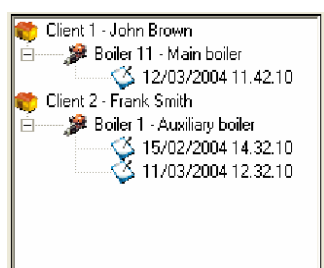
2 SOFTWARE ARCHITECTURE

The **DBGas 2004** uses a tree architecture for plants and boilers managing. This make easy and fast to access to the analysis data. A large area on the main windows is dedicated to the database tables. Select a Plant and the Boiler table will display the Boilers for the selected Plant.

The DBGas 2004 Standard Edition, includes the Analysis database. Select the Boiler in the table and all Uploaded Boiler Analysis will be displayed.



An orizzontal menu bar allows you to manage the most important software functions: insert a new Plant and a new Boiler, download and display the analysis data, select the boilers and send to the analyser.



The tree represents the data structure. Data are grouped by Plant (Customer); each group include the Boilers and the Analysis data.



Automatic Boilers selection for downloading

This function allows you the automatic selection from a specified date.



Show the selected Boilers

This function display the Boilers selected for downloading.



Download the measure from the gas analyser

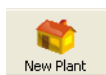
This function Read the measure stored in the gas analyser memory and store them in the DBGas 2004 database.

NOTE: this function is activated only on DBGas 2004 Standard edition. This function display the data for the selected measure record.



View the measure

NOTE: this function is activated only on DBGas 2004 Standard edition.



Add a new Plant (Customer) to the database

This function allows you to add a new Plant in the database.



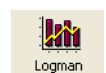
Add a new Boiler to the Plant database

This function allows you to add a new Boiler to the selected Plants.



Settings

This function allows you to change the engineering unit for the measure data.



Real Time Data Logging

This function allows you the real time data acquisition from your EcoLine 6000 or GreenLine 8000. The acquired data will be stored in the selected Boiler.

NOTE: This function is active only if you have the optional Logman module. LogMan module is available for EcoLine 6000 and GreenLine 8000 models only.

2.1 Plants and Boiler Database


The database uses two related tables: the first includes the Plant data and the second the Boilers installed in the Plant.

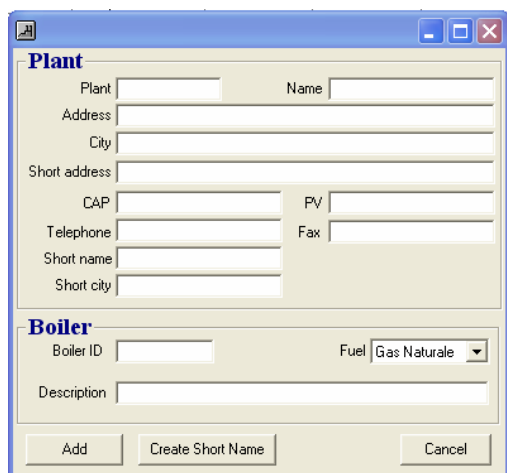
IMPORTANT

EACH BOILER DOWNLOADED TO THE INSTRUMENT WILL CORRESPOND TO A TAG IN THE ANALYSER MEMORY.

2.1.1 Plant data input



Press the  button from the menu bar. The following input windows is displayed.



Fill in the module with the plant (Customer) data. The "Short" fields will represents the 3 row of 16 characters used by the analyser on the analysis receipt. These fields can be compiled manually or automatically by pressing the "Create Short Name" button.

2.1.2 Boiler data input

Select the Plant on the database table: point the mouse cursor on the desired row and press the left key.

Plants		
#Plant ID	#Name	Address
Client 1	John Brown	Park Avenue 14
Client 2	Frank Smith	Abbey Road 67



Press the **New boiler** button from the menu bar. The following input windows is displayed.

Fill in the module with the Boiler data and press the “Add” key to confirm the data.

2.1.3 Database modification

The Plants and the Boilers data can be change directly from the table. Point the mouse cursor on the desired field and press the right key. The pencil icon will appear on the left column.

Plants					
	#Plant ID	#Name	Address	City	Tel
▶	Client 1	John Brown	Park Avenue 14	New York	366
	Client 2	Frank Smith	Abbey Road 67	London	156

Plants				
	#Plant ID	#Name	Address	City
✎	Client 1	John White	Park Avenue 14	New
	Client 2	Frank Smith	Abbey Road 67	Lonc

For removing a Plant or a Boiler from the database, point the mouse cursor on the desired row and press the left key. Press the “Canc” key on the PC keyboard to remove the record.

IMPORTANT

REMOVING A BOILER FROM THE DATABASE, WILL REMOVE ALL THE RELATED MEASURE.
REMOVING A PLANT FROM THE DATABASE, WILL REMOVE ALL THE RELATED BOILERS AND MEASURE.

It is possible to change the table view. You can make shorten, lengthen or hide the columns. Point the mouse cursor on the column right margin and press the left key. Move the column length as desired. Press twice the mouse left key for the automatic column length adaptation.

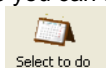
2.2 Set-Up the Gas Analyser

2.2.1 Boilers Selection

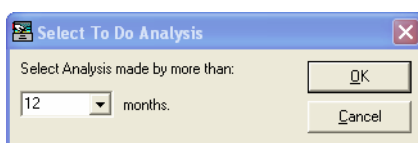
Now it is possible to select the boilers (max 40) for downloading in the flue gas analyser memory. Set to “YES” the field “Select for download” on the Boiler column using the mouse.

Boilers						
	#Boiler ID	Description	Fuel	Select for download	Stack type	Stack
▶	Boiler 11	Main boiler	Gasolio	<input checked="" type="radio"/> No <input type="radio"/> Yes	Circular	

Otherwise you can select automatically all boilers not checked from more than X months.



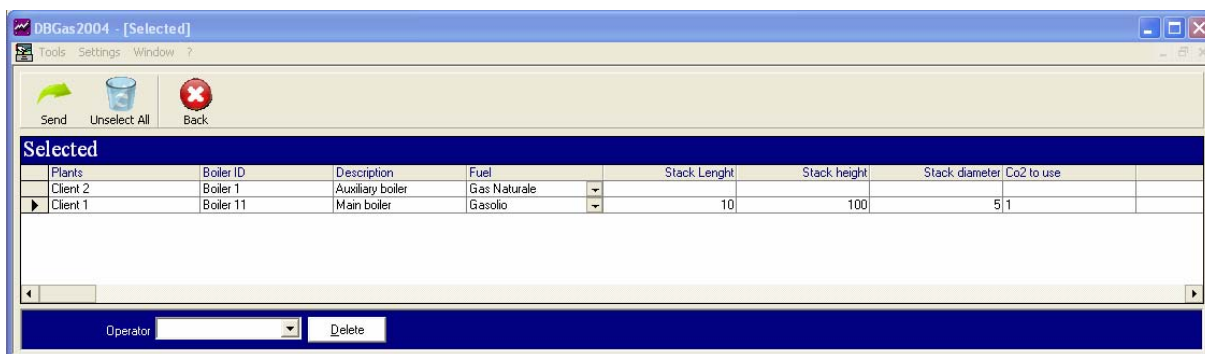
Press the **Select to do** button. The window below appear:



2.2.2 Send Data to the Gas Analyser



After the Boiler selection, press the **Show selected** button. The list of the selected Boilers will be displayed:



Press the **Back** button to return to the main window.



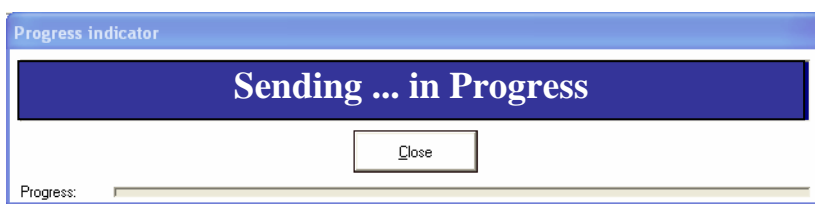
Press the **Unselect All** button to unselect all Boilers.

Input or select the operator name on the bottom of the table.

Connect the PC to the flue gas analyser. Check the serial port settings (Port no. and Baud Rate).



Press the **Send** key to send the Boilers (TAGs) on the Flue gas analyser memory.



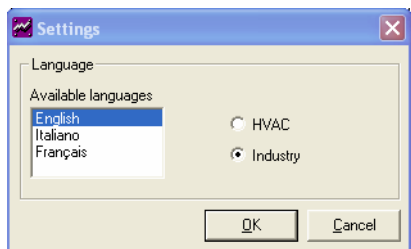
2.2.3 Use the Gas Analyser

The Flue Gas Analyser has a large internal data memory to store the analysis. Each analysis includes: all gas concentration values, date and time. Each TAG includes Smoke indexes, Draft, and Leak test data. Select the Boiler (TAG) on the instrument, perform all the necessary auxiliary measures (Draft, Smoke index, etc.), and then store all combustion analysis necessary (EcoLine 6000 and GreenLine 8000 can perform long term analysis that can include up to 1000 or 9000 measure). If you have the DBGas 2004 Standard edition can also transfer the analysis data from the instrument to the PC.

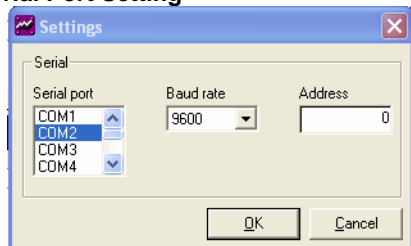
2.3 Settings

Select this option to change the DBGas 2004 settings.

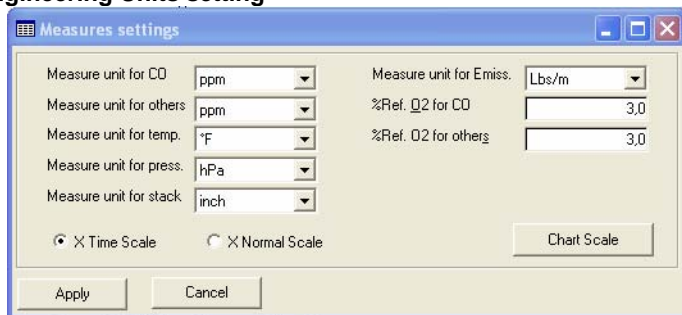
Language Selection



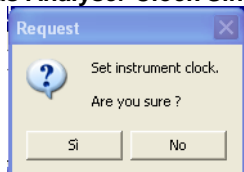
Serial Port Setting



Engineering Units setting



Gas Analyser Clock Sincronization



Connect the Gas analyser to the serial port of the PC.
The instrument internal clock will be set to the PC values.

2.3 Exit program

From the File menu it is possible to quit the program.



3 DBGas 2004 STANDARD EDITION

This is an optional module. DBGas 2004 Standard edition adds to the Lite edition the following capabilities:

- ☐ Download the measures from the Flue Gas Analyser to the DBGas 2004 database;
- ☐ View and Print the analysis data in Table format;
- ☐ View and Print the analysis data in graphic format;
- ☐ Export the analysis data in .CSV format.

If the software is correctly installed, the following button on the menu bar are active:



Download the measure from the gas analyser

This function Read the measure stored in the gas analyser memory and store them in the DBGas 2004 database.



View the measure

NOTE: this function is activated only on DBGas 2004 Standard edition. This function display the data for the selected measure record.

NOTE: this function is activated only on DBGas 2004 Standard edition.

3.1 Download Data from Gas Analyser

Connect the PC to the flue gas analyser. Check the serial port settings (Port no. and Baud Rate).

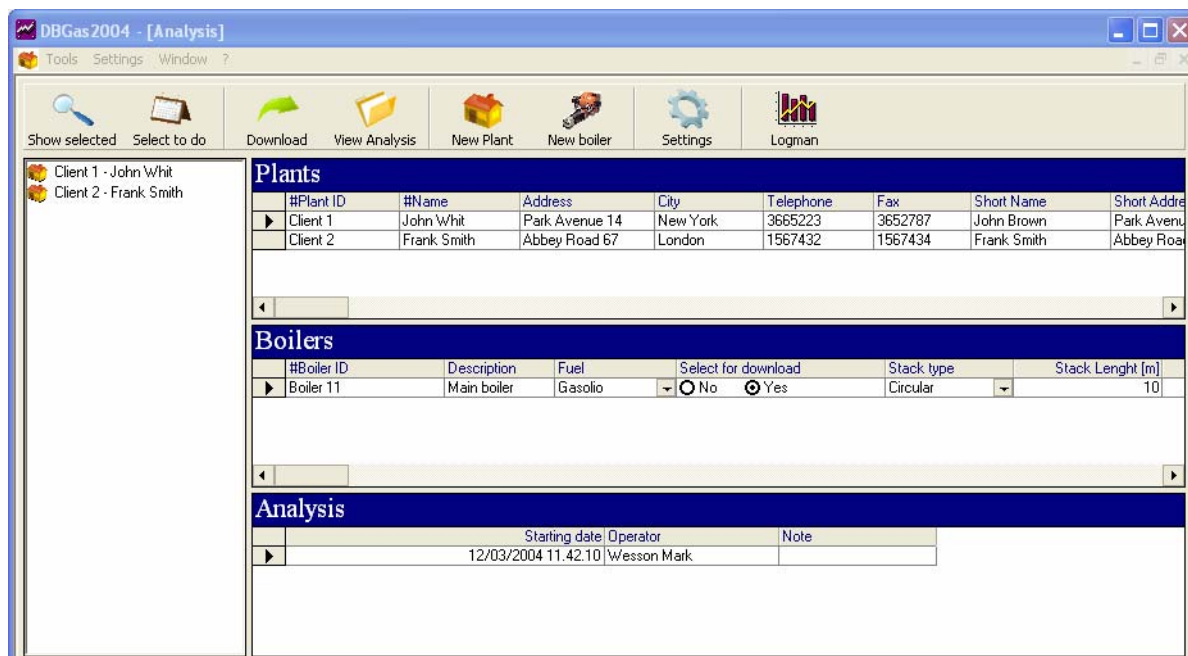


Press the **Download** button to transfer the data from the flue gas analyser to the PC.

If the TAGs ID on the instrument correspond to the Boilers ID on the DBGas 2004 database, the measure will be correctly assigned in the database.

3.2 View Data

Select the analysis record on the DBGas 2004 table.



Press the **View Analysis** button to view all the analysis values.



Progressive	Sampling date	O2 [%]	CO [ppm]	NO [ppm]	Tgas [°C]	Tamb [°C]	Eff. nett [%]	Loss nett [%]	NOx [ppm]	CO [ppm] REF
1	12/03/2004 11.42.10	5,5	0	1	107,6	23,4	95,7	4,3	1	0
2	12/03/2004 11.42.15	5,5	0	1	106,2	23,4	95,8	4,2	1	0
3	12/03/2004 11.42.20	5,6	0	1	107,3	23,4	95,7	4,3	1	0
4	12/03/2004 11.42.25	5,5	0	1	107,4	23,4	95,7	4,3	1	0
5	12/03/2004 11.42.30	5,5	1	1	106,3	23,4	95,8	4,2	1	1
6	12/03/2004 11.42.35	6,1	0	1	107,2	23,4	95,6	4,4	1	0
7	12/03/2004 11.42.40	5,5	0	1	106,0	23,4	95,8	4,2	1	0
8	12/03/2004 11.42.45	5,5	0	1	106,1	23,4	95,8	4,2	1	0
9	12/03/2004 11.42.50	6,1	0	1	106,1	23,4	95,6	4,4	1	0
10	12/03/2004 11.42.55	6,0	0	1	106,3	23,4	95,6	4,4	1	0
11	12/03/2004 11.43.00	5,5	0	1	107,6	23,4	95,7	4,3	1	0
12	12/03/2004 11.43.05	5,5	0	1	106,2	23,4	95,8	4,2	1	0
13	12/03/2004 11.43.10	5,6	0	1	107,3	23,4	95,7	4,3	1	0
14	12/03/2004 11.43.15	5,5	0	1	107,4	23,4	95,7	4,3	1	0
15	12/03/2004 11.43.20	5,5	1	1	106,3	23,4	95,8	4,2	1	1
16	12/03/2004 11.43.25	6,1	0	1	107,2	23,4	95,6	4,4	1	0
17	12/03/2004 11.43.30	5,5	0	1	106,0	23,4	95,8	4,2	1	0
18	12/03/2004 11.43.35	5,5	0	1	106,1	23,4	95,8	4,2	1	0
19	12/03/2004 11.43.40	6,1	0	1	106,1	23,4	95,6	4,4	1	0
20	12/03/2004 11.43.45	6,0	0	1	106,3	23,4	95,6	4,4	1	0
21	12/03/2004 11.43.50	5,5	0	1	107,6	23,4	95,7	4,3	1	0
22	12/03/2004 11.43.55	5,5	0	1	106,2	23,4	95,8	4,2	1	0

Show/Hide columns



Press the **Show columns** button to show the complete list of parameters.

Show/Hide columns

Various parameters

- ☒ Flow Temp [°C]
- ☒ Sensor Temp. [°C]
- ☐ Smoke 1
- ☐ Smoke 2
- ☐ Smoke 3
- ☒ Smoke Average
- ☐ Oil derivative
- ☐ Leak Result A
- ☐ Leak Result B
- ☐ Leak Test A B1 [hPa]

Analysis table

- ☒ Progressive
- ☐ Memory position
- ☒ Sampling date
- ☒ O2 [%]
- ☒ CO [ppm]
- ☒ NO [ppm]
- ☒ Tgas [°C]
- ☒ Tamb [°C]
- ☐ Tdiff [°C]
- ☐ Draught

Italy Parameters table

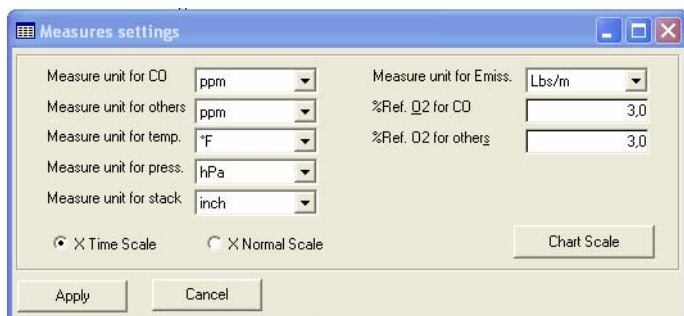
- ☐ Stato Coibentazione
- ☐ Regolazione Controllo
- ☐ Ventilazione Locale
- ☐ Portata Combustibile [Kg/h]
- ☐ Potenza Termica [Kw]

☒ Show Gas
☒ Show Gas Rif.
☐ Show Gas emis.

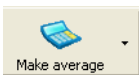
Buttons: OK, Cancel, Select all

Personalize the view table by selecting and unselecting the parameters.


Engineering Units changes




Average



Press the **Make average** button to calculate the average for all o part of the measure.

Press the  button and select "Average of all measure"; a new row on the bottom of the table will display the average for each column.

Keep the CTRL key down and select using the left key of the mouse the desired row.

Press the  button and select "Average of selected measure"; a new row on the bottom of the table will display the average for each column.

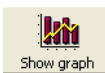
3.3 Graphic

Using this function it is possible to display in a trend format one or more variable.

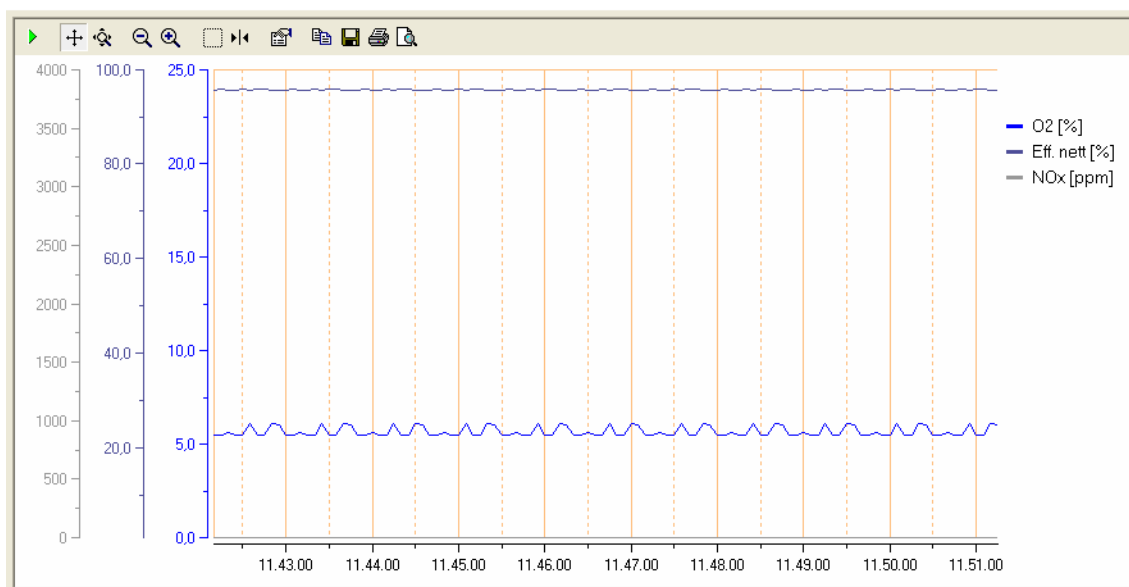
Select the columns by moving the mouse pointer on the column header and pressing the left key.




Press the **SelDesel** button to select (unselect) the variable.



Press the **Show graph** button to show the graphic.



The tool bar on the top of the windows allows you to perform settings and readings for a complete data analysis.


	X-axis and Y-axis range adjustment. Select the  button and point the cursor over the X or the Y axis. Keep down the right key, move up or down (right or left for the X-axis) the mouse to enlarge or to reduce the scale.
	Use these buttons to zoom-in or zoom-out the graph.




Use this button to zoom-in an area of the graph.

Use this button to move the graph in the windows.

Use this button to display a cursor complete of the (X, Y) coordinate for the selected graph.

- 1) Press the  button and select one of the three graph (Error Actual, Max Error, Min Error);
- 2) Move the cursor line where you need to know the value. The cursor will also display the data between two data point using a linear interpolation.




3.4 Export Data



Press the  button to export all analysis data.

3.5 Print Data



Press the  button to print the analysis data. The preview window will displayed as follow:

Print preview

File View

103% Page 1 of 4

Plant : Client 1 Boiler ID : Boiler 11 Fuel : Gasolio

Progressive	Sampling date	O ₂ [%]	CO [ppm]	NO [ppm]	Tgas [°C]	Tamb [°C]
1	12/03/2004 11.42.10	5,5	0	1	107,6	23,4
2	12/03/2004 11.42.15	5,5	0	1	106,2	23,4
3	12/03/2004 11.42.20	5,6	0	1	107,3	23,4
4	12/03/2004 11.42.25	5,5	0	1	107,4	23,4
5	12/03/2004 11.42.30	5,5	1	1	106,3	23,4
6	12/03/2004 11.42.35	6,1	0	1	107,2	23,4
7	12/03/2004 11.42.40	5,5	0	1	106,0	23,4
8	12/03/2004 11.42.45	5,5	0	1	106,1	23,4
9	12/03/2004 11.42.50	6,1	0	1	106,1	23,4
10	12/03/2004 11.42.55	6,0	0	1	106,3	23,4
11	12/03/2004 11.43.00	5,5	0	1	107,6	23,4
12	12/03/2004 11.43.05	5,5	0	1	106,2	23,4
13	12/03/2004 11.43.10	5,6	0	1	107,3	23,4
14	12/03/2004 11.43.15	5,5	0	1	107,4	23,4
15	12/03/2004 11.43.20	5,5	1	1	106,3	23,4
16	12/03/2004 11.43.25	6,1	0	1	107,2	23,4
17	12/03/2004 11.43.30	5,5	0	1	106,0	23,4
18	12/03/2004 11.43.35	5,5	0	1	106,1	23,4
19	12/03/2004 11.43.40	6,1	0	1	106,1	23,4
20	12/03/2004 11.43.45	6,0	0	1	106,3	23,4
21	12/03/2004 11.43.50	5,5	0	1	107,6	23,4



Print the table.



4 DBGas 2004 LOGMAN EDITION

LogMan is an optional module for DBGas 2004. LogMan module is available for EcoLine 6000 and GreenLine 8000 models only. It adds to the Standard edition the following capabilities:

- ☐ Real-Time data acquisition for EcoLine 6000 and GreenLine 8000;
- ☐ Data stored on the boilers DBGas 2004 database;
- ☐ View and Print the analysis data in graphic format;
- ☐ Export the analysis data in .CSV format.


If the software is correctly installed, the following button on the DBGas 2004 menu bar is active:

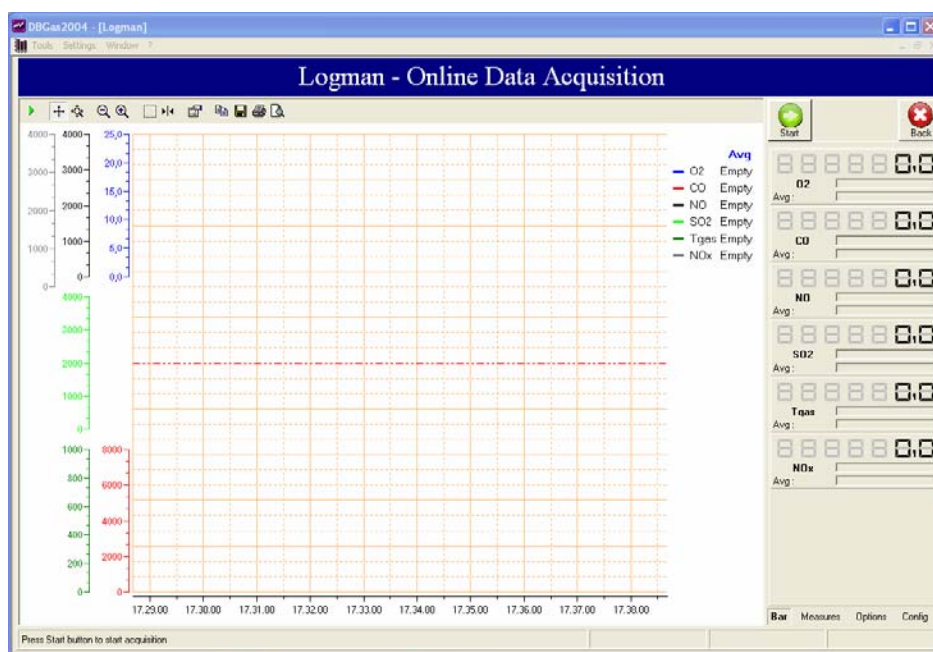



Real Time Data Logging

This function allows you the real time data acquisition from your EcoLine 6000 or GreenLine 8000. The acquired data will be stored in the selected Boiler.




Select, from the DBGas 2004, the Boiler and press the  button. The following page will displayed:



Press the  button to run the data acquisition.



Press the  button to stop the data acquisition.



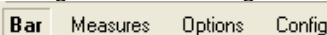
Press the  button to return to the DBGas 2004 database.

Acquired data are now added to the boiler database. You can view, print and export data as described in previous chapter.

4.1 Change the Configuration

Same parameter on the software module should be set before run the acquisition.

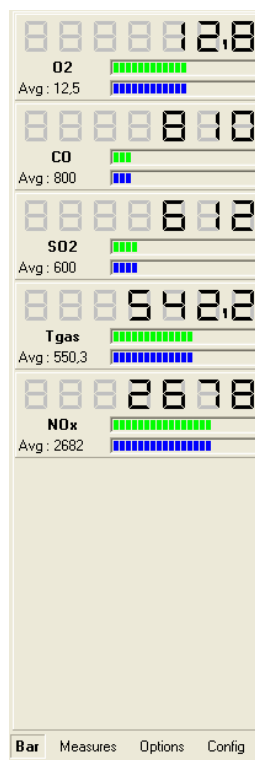
The right area of the LogMan window can be changed pressing the button on the bottom of the window:



Four different options are available:



Bar: in Run mode, the window show the current value and the bar for the current and the average of the parameters displayed on the left area.



Measures: in Run mode, the window show the current value for the selected parameter. Pressing, the “Select parameters” button, you can show/hide the parameters from a complete table:

Parameter	Value	U.M
O2	12.8	%
CO	777	ppm
NO	2532	ppm
SO2	591	ppm
Tgas	554.9	°C
Tamb	6.4	°C
CO2	4.6	%
EoA 1	2.39	%
Eff. nett	50.3	%
NOx	2611	ppm
CO REF.	1703	ppm
NO REF.	5552	ppm
SO2 REF.	1236	ppm
NOx REF.	5724	ppm

Select Parameters

Using this table, you can how/hide the parameters for the “Bar” window.



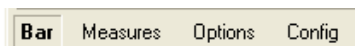
Options: A complete control of the data acquisition is on this window. You can change the time scale, Data acquisition time, etc.

Config: You can load, Save and Delete LogMan Configurations.

4.1.1 Save the configuration

It is possible to save one or more LogMan configuration. Each configuration includes displayed parameters, scale range, trace colours, engineering units, etc.

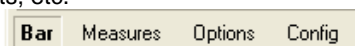
Select the "Config" option on the LogMan bottom bar :



4.1.2 Load the configuration

It is possible to load the previously saved LogMan configuration. Each configuration includes displayed parameters, scale range, trace colors, engineering units, etc.

Select the "Config" option on the LogMan bottom bar :





4.2 Graphic

The tool bar on the top of the windows allows you to perform settings and readings for a complete data analysis.

	<p>X-axis and Y-axis range adjustment.</p> <p>Select the button and point the cursor over the X or the Y axis. Keep down the right key, move up or down (right or left for the X-axis) the mouse to enlarge or to reduce the scale.</p>
	<p>Use these buttons to zoom-in or zoom-out the graph.</p>
	<p>Use this button to zoom-in an area of the graph.</p>
	<p>Use this button to move the graph in the windows.</p>
	<p>Use this button to display a cursor complete of the (X, Y) coordinate for the selected graph.</p> <p>3) Press the button and select one of the parameters;</p> <p>4) Move the cursor line where you need to know the value. The cursor will also display the data between two data point using a linear interpolation.</p>

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