



# KIMO

## DATA LOGGER-10

Logiciel d'exploitation des portables  
*Operating software for portable instruments*



**Radio**  
Wireless



**Filaire**  
Wired

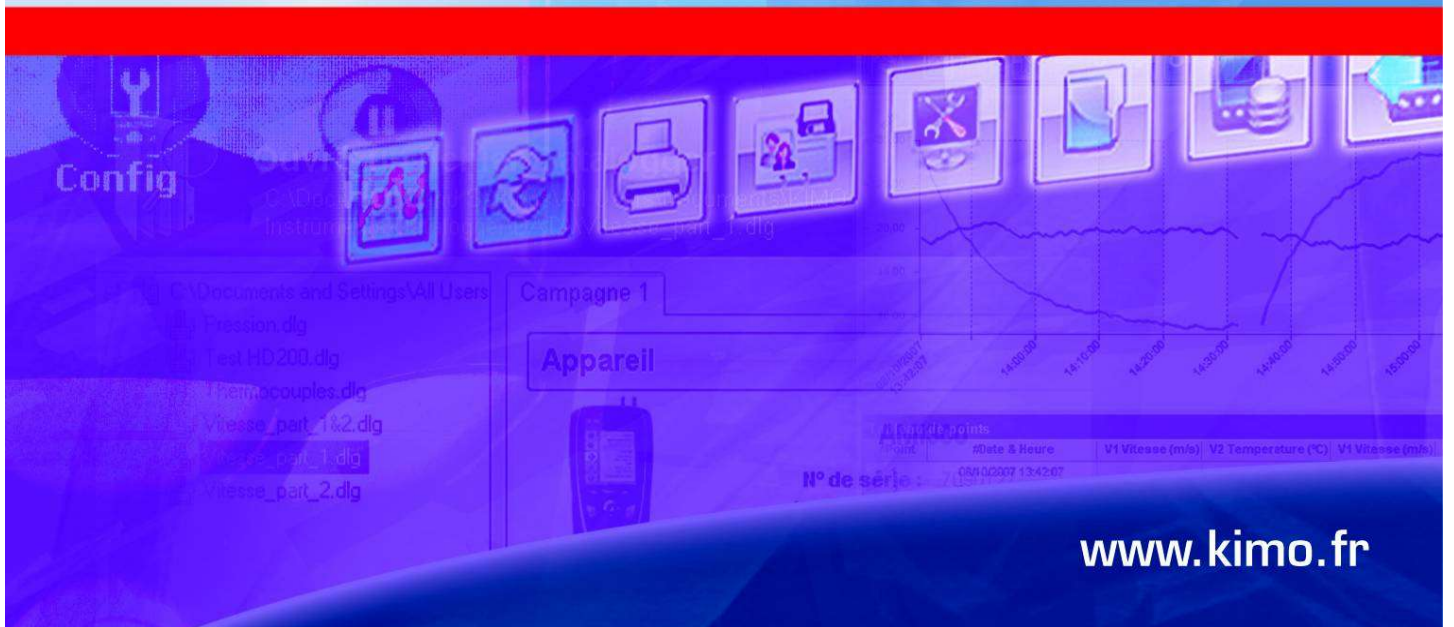




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## I – Minimum system requirements

### I 1 - Minimum configuration required

Windows 2000, XP and Vista  
Communication Port USB and RS-232  
CD drive  
Internet Explorer 6.0  
RAM 256 Mo

### I 2 – Software uninstallation

Using « Start », « Parameters », « Configuration panel », « Add/Delete program », select « DATALOGGER-10 » and follow Windows instructions to uninstall the application.

### I 3 – Launching application

The DATALOGGER-10 application can be launched by :

Click on  icon on your desktop.

or  
Using « Start », « Programs », « KIMO instruments » and then click on « DATALOGGER-10 ».

## II – Software installation



Insert CD into CD drive.

The installation auto runs. If not, use your browser to launch the « **Setup\_Datalogger-10.exe** » file from the installation CD.

Click on **Next** or **Previous** to cancel the installation. Click on **Close** to quit, when the installation is finished.

### III – Read device

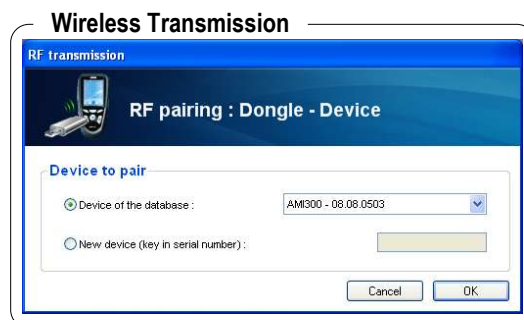
#### III 1 – Communication types

##### Communication with USB cable

- 1- Plug USB cable between computer USB port and AMI300
- 2- Select communication mode if key is not automatically recognized.

##### Wireless communication

- 1- Plug wireless dongle on computer USB port
  - 2- Enter the instrument serial number:
    - select it from product database,
    - or, you can enter it using keypad  
YY.MM.NNNN (Year – month - number)
- Before confirmation, set the device into unloading Wireless mode.
- Go to **Parameters** menu and set **Wireless loggag** to ON

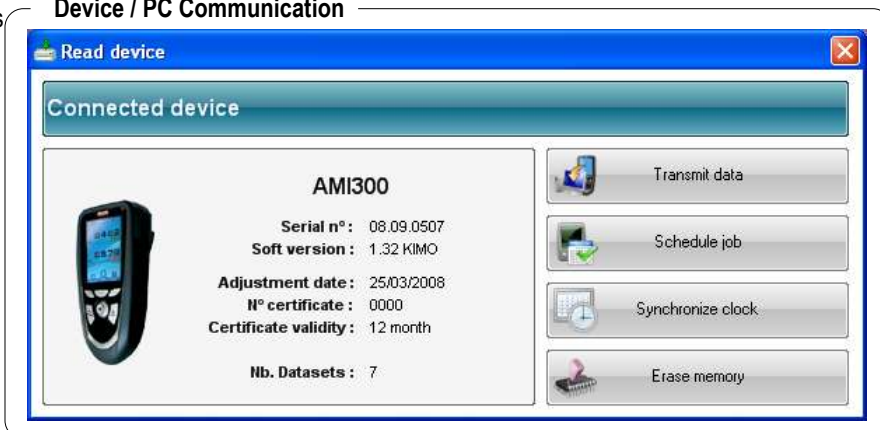


#### III 2 – Device / PC Communication

Homepage appears with device information (such as name, serial number, software version, ...).  
This homepage gives access to :

- Transmit data
- Schedule job
- Synchronize clock
- Erase memory

##### Device / PC Communication

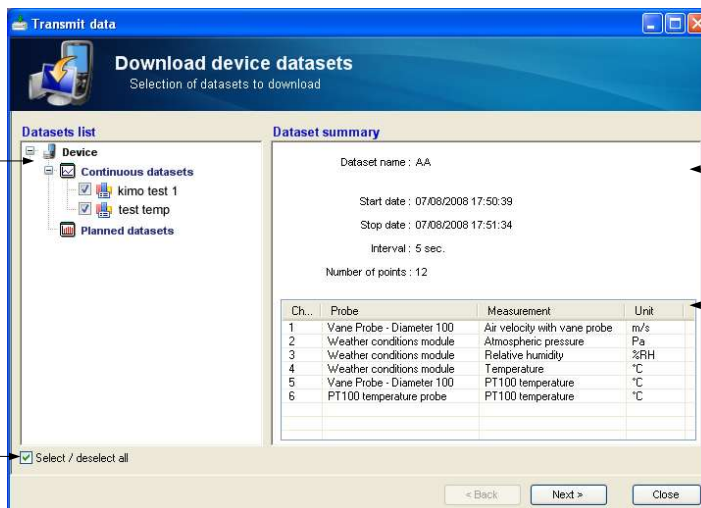


#### III2-1- Transmit data

##### III2-1a- Selection of datasets to download

Click on « **transmit data** ». A window, « **download device datasets** », appears. This function allows unloading of one, several or all datasets to transfer all or a part of datasets. Tick datasets required. Click on **Next**.

**Datasets** recorded in the instrument



**Dataset summary**  
name, starting/ending date,  
interval, points number

**Table**  
Channels, probes, parameters  
and units

Allows to tick or tick off  
datasets to be unloaded

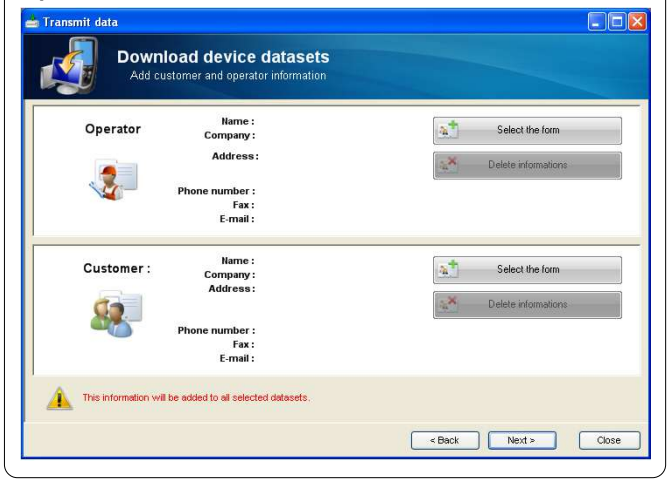
Ch...	Probe	Measurement	Unit
1	Vane Probe - Diameter 100	Air velocity with vane probe	m/s
2	Weather conditions module	Atmospheric pressure	Pa
3	Weather conditions module	Relative humidity	%RH
4	Weather conditions module	Temperature	°C
5	Vane Probe - Diameter 100	PT100 temperature	°C
6	PT100 temperature probe	PT100 temperature	°C

**III-2-1-b- Add customer and operator information**

This window allows to add customer and operator information (such as name, address, telephone,...); Click on **Next** .

See §V4 – Operator and customer (p. 19), if information are missing into database.

**Operator / customer**



**III-2-1-c- Unloading options**

1. To choose destination folder, click on browsing
2. Management of existing files  
Each file name is composed by dataset name with file extension .dlg (e.g.: KIMOTEST.dlg). If a dataset have the same name, three options are proposed:

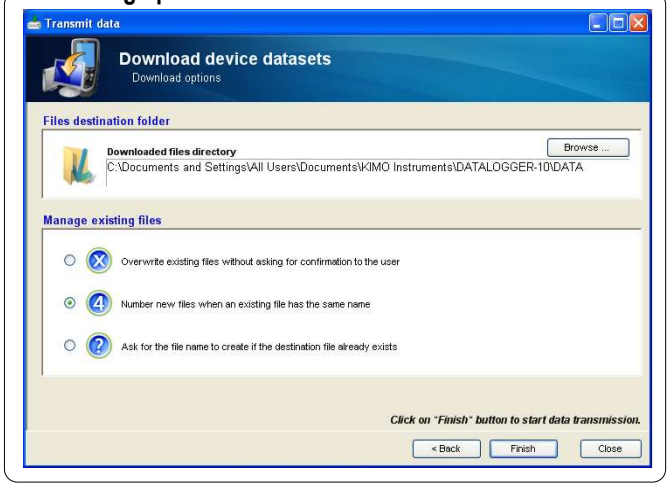
**a. The new file overwrites the older one**  
WARNING ! If you choose this option, the older file, and its data will be deleted.

**b. The new file is numbered**  
The name is followed by a number, ie: KIMOTEST1.dlg on 01/23/08, KIMOTEST2.dlg on 15/12/08 and next file will be followed by number 3.

**c. The new name is renamed**  
No dataset is erased. If two files have the same name, a windows appears to rename the new file.

Click on Finish to launch unloading

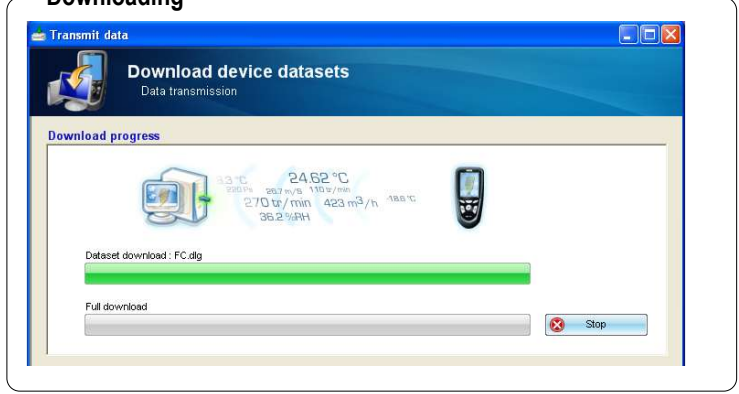
**Unloading options**



**III-2-1-d- Downloading**

A window with unloading progress bar appears. The upper bar displays unloading status for one dataset. The lower bar displays unloading status for all datasets. You can stop the downloading : click on **Stop** button.

**Downloading**



**III2-2- Schedule job**

This function allows to schedule job in advance. See Chapter VI- **Planned dataset**, p.20 .

**III2-3- Synchronize clock**

This function allows AMI300 clock synchronization with PC. A message appears when the synchronization is completed.



**III2-4- Delete memory**

This function allows to delete all datasets. A message appears when this operation is completed.

**IV – Software presentation**

**IV 1 – Interface**

**Menus** → File Display Device Dataset Tools Windows ?

**Tool bar** → [Icons for file operations and navigation]

**Dataset name** → Controlle Pression

**Overall view** → [Small graph preview]

**Graph and chart** → [Main graph showing two data series over time]

**Legends and statistics** → ch1 Pression BE [Pa]  
ch2 Temperature BE [°C]

**Values chart** →

Point	Date / hour	ch1 Pression BE [Pa]	ch2 Temperature BE [°C]
1	08/10/2007 09:39:13	120,15	25,00
2	08/10/2007 09:39:23	120,24	25,05
3	08/10/2007 09:39:33	120,28	25,10
4	08/10/2007 09:39:43	120,47	25,14
5	08/10/2007 09:39:53	120,49	25,14
6	08/10/2007 08:40:03	120,52	25,18
	08/10/2007 09:40:13	120,54	25,22

**Dataset information** → [Info icon]

## IV 2 – Tool bar

The tool bar is composed of icons for quick access to functions which are also available from menus.

	Open DATALOGGER-10 file		Transmit datas
	Save		Schedule job
	Export datas		Open products database
	Print preview		Preferences
	Print		

## IV 3 – Graph and Chart

To select a display type, click on one of the 5 icons on the top right of the window.

	Display / Hide Overall view	Display / Hide Statistics
Graph	Chart	Graph and chart

### IV3-1- Graph

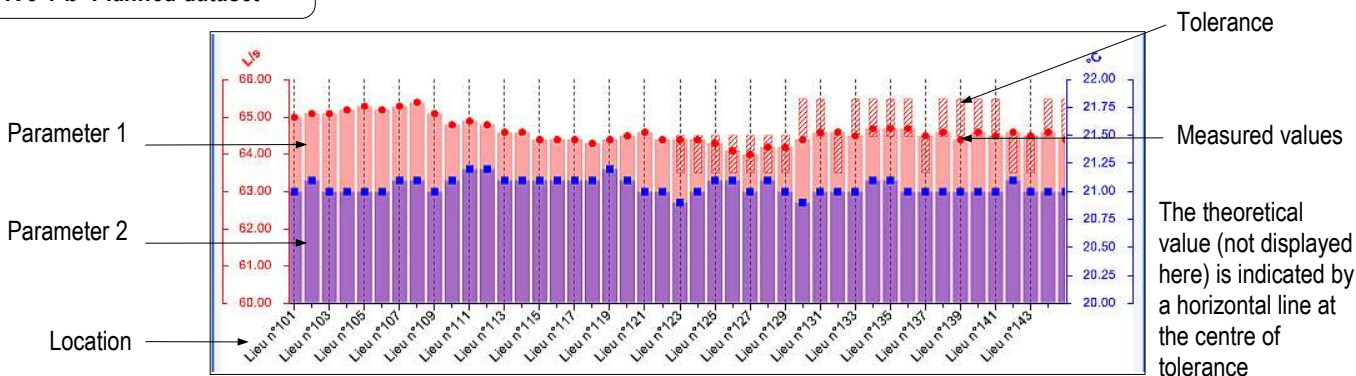
**Tools**

	Reset graph		Zoom in
	Connect points		Zoom out
	Mark points		Forward Zoom
	Selection pointer		Move pointer
	Browsing cursor		Hide / display 3D curves

### IV3-1-a- Continuous dataset



**IV3-1-b- Planned dataset**

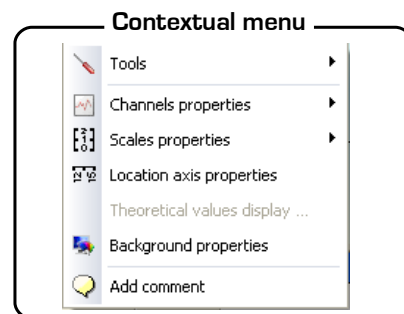


**IV3-2- Customize the graph**

**IV3-2-a- Contextual menu**

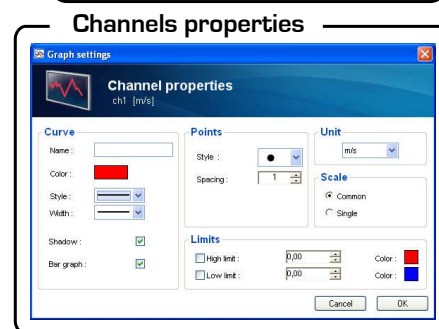
Accessible by clicking on the right button of your wheel mouse from the display window.

- Tools
- Channels properties
- Scales properties
- Time axis properties (continuous dataset)
- Location axis properties (planned dataset)
- Theoretical values display (planned dataset)
- Background properties
- Add comment



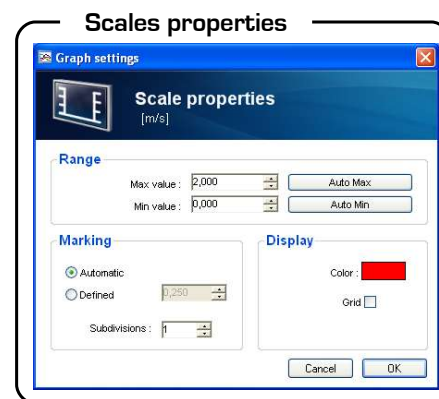
**IV3-2-b- Channel properties**

The operator can select the different available channels, and change its parameters (such as units, points, scale, high and low limits)



**IV3-2-c- Scale properties**

The operator can select the scale to change and define its parameters (range, marking, display).

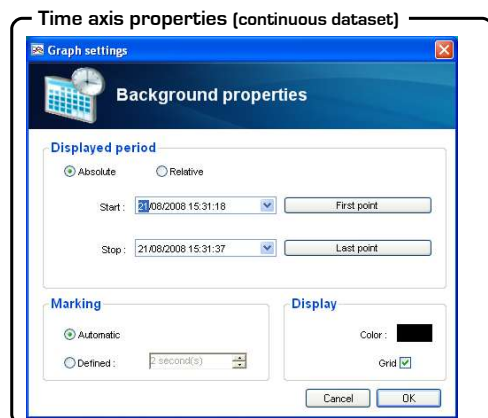
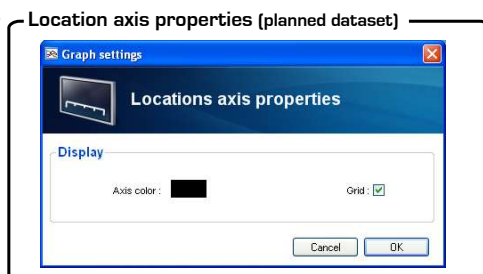


**IV3-2-d- Time axis and location axis**

The operator may access to the view properties :

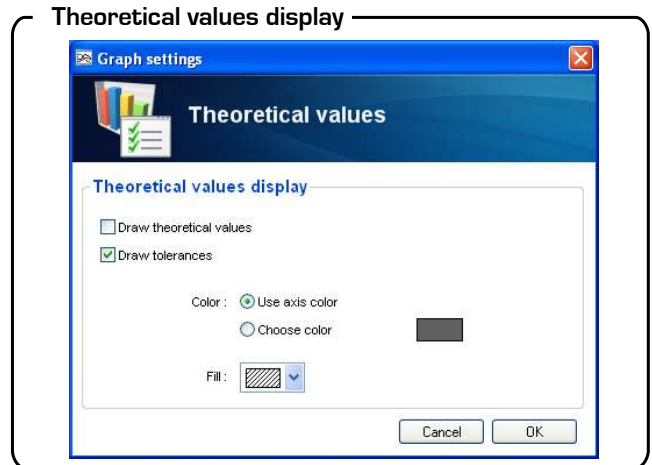
- absolute time representation (date and hour) or relative representation time
- interval with start and end date for time axis
- select between an automatically calculated marking or a user defined one
- select axis colour and enable/disable gridlines display.

For a planned dataset, operator may access to select location axis color and enable/disable gridlines display.



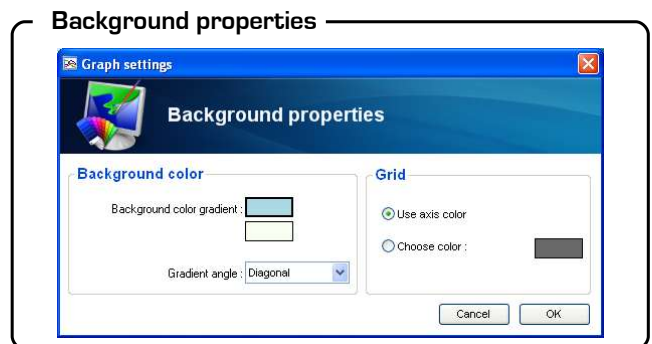
**IV3-2-e- Theoretical values display**

The operator can add theoretical values or tolerance on the graph and select axis color and filling.



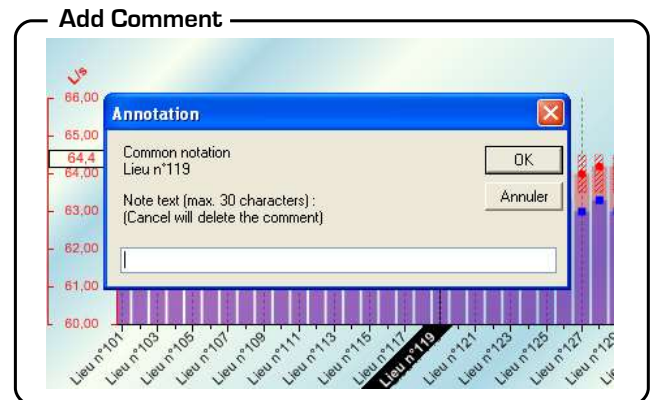
**IV3-2-f- Background properties**

This windows allows to change the background and grid colors.



**IV3-2-g- Add comment**

The operator can insert a comment on the graph. Choose comment location using cursor. A window appears and enter your text. Click on **OK** to validate or **Cancel** to delete the comment. A symbol appears and if you place the mouse over, the comment is displayed. To change comment, click once on the symbol and the **Annotation** window appears.



**IV3-3- Values chart**

Values of each channel

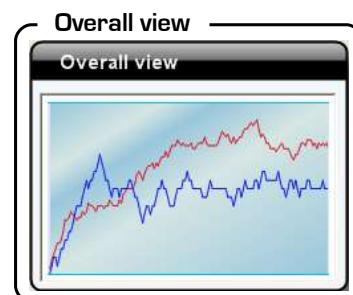
Point	Date / Time	Values of each channel			
Point	Date / hour	ch1 TK 1 [°C]	ch2 TK 2 [°C]	ch3 TK 3 [°C]	ch4 TK 4 [°C]
1	08/10/2007 11:46:52	100,30	104,00	102,20	105,00
2	08/10/2007 11:47:22	100,49	104,40	102,19	105,00
3	08/10/2007 11:47:52	100,76	104,76	102,23	105,10
4	08/10/2007 11:48:22	101,17	104,78	102,52	105,09
5	08/10/2007 11:48:52	101,56	105,01	102,49	105,18
6	08/10/2007 11:49:22	101,64	105,31	102,57	105,16
7	08/10/2007 11:49:52	101,75	105,37	102,74	105,25

The values chart respectively features (in rows):

- Point number**
- Recording date and time**
- And values of each channel**
- etc...**


### IV3-4- Overall view


Thanks to **Overall view** window, the operator can display the part of graph visible on the « **Graph and chart** » window. This zone is represented in blue.





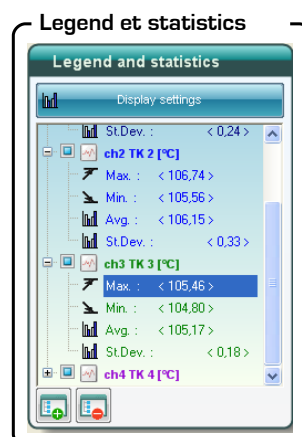
### IV3-5- Legend and statistics

« **Legend and statistics** » panel allows to view channels store with different colours. For example: temperature measured on the channel 3 appears in green.

If you click on blue square , you can display or hide the channel on « **Graph and chart** » window .

If you click on cross , you can display or hide statistics of each channel (min, max, average or standard deviation).

If you click on  or , you can display or hide the statistics of all channels.



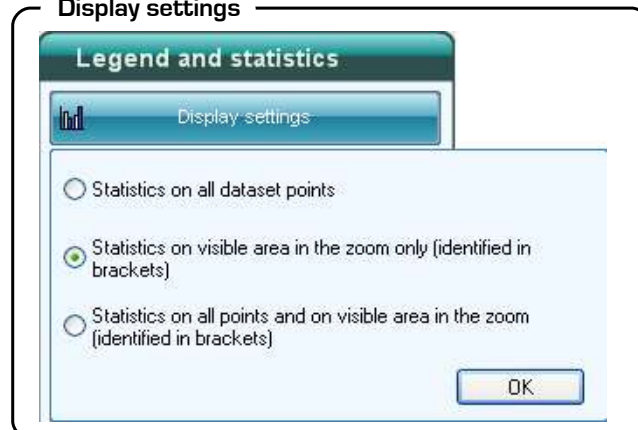
**Display settings** allows to define view properties of statistics. Statistics are calculated on each channel and you can choose one of 3 settings:

Statistics on all the dataset points  
Interval between the first and the last points measured.

Statistics on visible area in the zoom only (identified in brackets)  
E.g. : From 08/10/2007 14:29:50 to 08/10/2007 15:00:10.

Statistics on all points and on visible area in the zoom (noted in brackets)

### Display settings



## IV 4 – Menus

### IV4-1- File

#### Open

The operator can access « **Open a datalogger file** » window. Datasets available are displayed on the left. If you want open an another file in a another folder, click on « **other location** » and look for your file. Select your dataset and click on **Open** .

#### Add a file

The operator can add a new dataset to the dataset already opened.

#### Create a planned dataset

#### Close

Close the current file. Before closing the file, a dialog window appears and asks you if you want save this file.

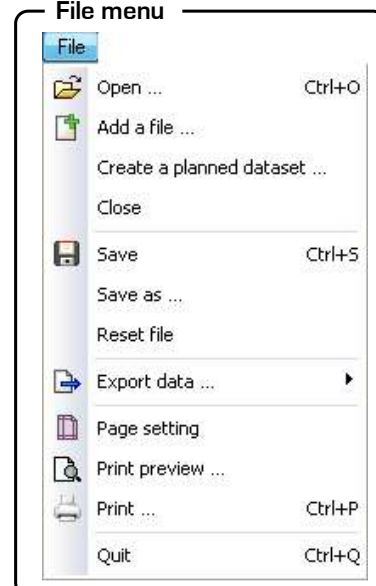
#### Save and Save as

Allows to save modification brought to current file..

#### Reset file

Deletes all added modifications to a file (returns to original file format).

### File menu



### Export data :

Graph as image (available file formats : **Jpg**, **Bmp**, **Gif** or **Png**).

Table to text. Values chart to the **Txt** file format.

**PDF** file report. You can add dataset summarize, graph (legends and statistics) and values chart. Click on **OK** to save.

### Page setting

This function allows to define paper format, orientation and margins before printing

### Print preview

« **document selection** » window appears. you can choose one of 3 settings:

### Dataset report

### Graph and statistics

### Values chart

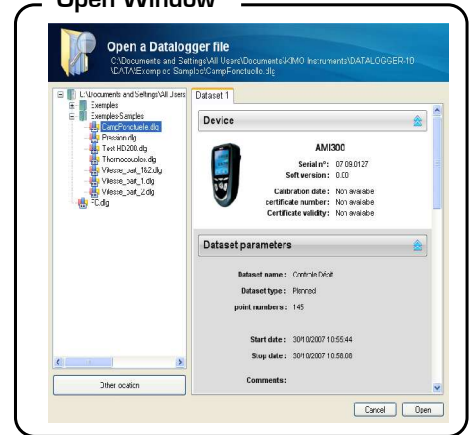
### Print

Before printing, «**document selection** » window appears.

### Quit

Before quitting application, a dialog window appears and asks you if you want save this file.

### Open Window



## IV4-2- Display

The operator can display or hide the following pannels:

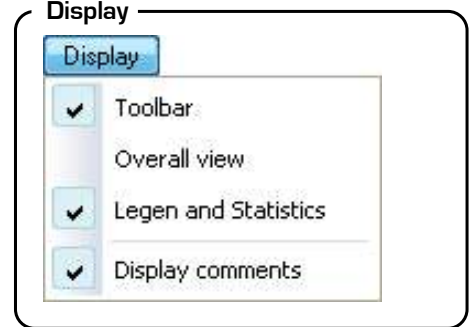
**Tools bar** (See p9)

**Overall view** (See p12)

**Legend and statistics** (See p12)

**Display comments** (See p11)

### Display



## IV4-3- Device

**Read device.** See p6 "Device / PC communication".

**Schedule job.** See chapter VI "Schedule job". p 20

### Open products database

This information are updated each time device is connected or dataset is unloaded

Product name

Serial number

Operation type

Certificate number

Calibration date

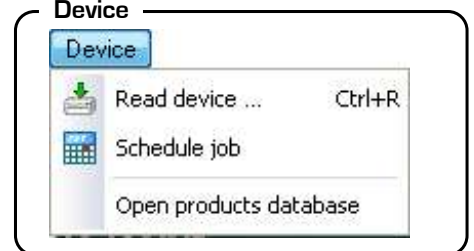
Warning time (define by operator)

Validity period of calibration

If this period is soon expired, the line is yellow.

If this period has expired, the line is red.

### Device



### Probes and modules stock management

#	Product name	Serial n°	Operation type	certificate number	Date	Validity period	Warning time
1	AQ200	08.01.0502	Adjustment	124356789	25/03/2008	12 month	5 day(s)
2	AM300	08.08.0503	Adjustment	234567891	25/03/2008	12 month	30 day(s)
3	View Probe - Diemeter...	08.08.0621	Calibration	345678912	12/08/2008	12 month	30 day(s)

### Instruments stock management

You can delete a device. Select device and click on **Delete**.

Some information may be modified. Select instrument and click on **Edit**:

Certificate number

Validity period

Warning time

Click on « **Confirm** » to validate or « **Cancel** ».

**IV4-4- Dataset**

This menu is only accessible when a file is opened.

**Modify title**

allows to change the file title.

**Dataset information**

**Dataset Summary** window appears. See Chapter V p.18 for more information.

**Modify dataset comments**

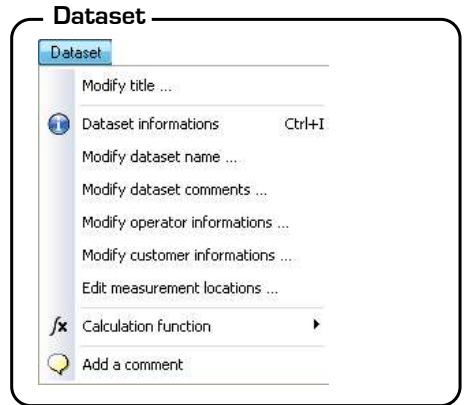
**Modify operator information**

**Operator database management** window appears. See Chapter V.4 « Customer and operator » for more information.

**Modify customer information**

**Customer database management** window appears. See Chapter V.4 « Customer and operator » for more information.

**Edit measurement locations** See p.21



**Add a comment**

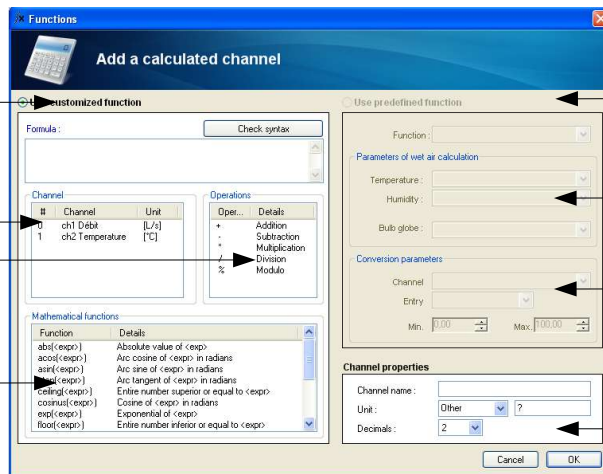
Choose comment location using cursor. An « **Annotation** » window appears : enter your text. Click on **OK** to validate or **Cancel** to delete the comment. A symbol appears and if you place the mouse over, the comment is displayed. To modify the comment, click once on the symbol and the **Annotation** window appears. Comments are symbolized by a triangle : white if it concerns all channels or according to the channel colour.

**Function.** This action allows to add, change or delete on measuring points

*operations (in **customized function**) or*

*mathematical functions (in **customized function**) or*

*predefined calculation function*



Customized function

Predefined function

Channels  
Operations

Parameters of wet air calculation

Mathematical functions

Conversion parameters

Channels properties

**IV4-4-a- Operations**

How to create an operation :

**Create the formula.** Click twice on the channel and click twice on the operator (see below "operators table")

Ex : #001 - #008.

**Check syntax.** If syntax is right, go to next step, otherwise, please correct the formula.

**Select channel properties.** (Name, units, decimals).

**Validate with OK**

**Operators table**

+, -, *, /	Addition, subtraction, multiplication and division.
%	Modulo (Integral part of result). Example : 13 % 3 = 1

## IV4-4-b- Mathematical functions

How to create math function:

**Create formula.** Click twice on math function (see Table of math function below) and click twice on the channel or add appropriated number.

**Check syntax.** If syntax is right, continue to next step, otherwise correct the formula.

**Select channel properties .** (Name, units, decimals).

**Validate with OK**

<b>abs (&lt;expr&gt;)</b>	Return the absolute value of <expr>. ABS(V(NameChannel1) calculate absolute value of NameChannel1, if it is positive, or opposite otherwise ABS(V(NameChannel1)*10.3+V(NameChannel2)) calculate following formula V(NameChannel1)*10.3+V(NameChannel2) and equals its absolute value.
<b>Acos (&lt;expr&gt;)</b>	Return the arc cosine of <expr>, in radians. acos (0) equals 1.5708 acos (-1) equals 3.1416
<b>Asin (&lt;expr&gt;)</b>	Return the arc sine of <expr>, in radians. asin (1) equals 1.5708 asin (0) equals 3.1416
<b>Atan (&lt;expr&gt;)</b>	Return the arc tangent of <expr>, in radians. atan (1) equals 0.7854 atan (0) equals 0
<b>Ceiling (&lt;expr&gt;)</b>	Whole number greater or equal to expression CEIL (2.9) equals 3 CEIL (-2.9) equals -2
<b>Cosinus (&lt;expr&gt;)</b>	Return the cosine of <expr> radians. cos (1.5708) equals 0 cos (3.1416) equals -1
<b>Exp (&lt;expr&gt;)</b>	Return the exponential of <expr>
<b>Floor (&lt;expr&gt;)</b>	Whole number smaller or equal to expression Floor (2.9) equals 2 Floor (-2.9) equals -3
<b>Ln (&lt;expr&gt;)</b>	Return the logarithm of <expr> <expr> must be positive
<b>Log10 (&lt;expr&gt;)</b>	Return the base-10 logarithm of <expr> Log 100 equals 2. Log(V(NameChannel1)*10.3+V(NameChannel2)) calculate following formula V(NameChannel1)*10.3+V(NameChannel2) and equals the base-10 logarithm <expr> must be positive
<b>Pow (&lt;expr&gt; ; &lt;pw&gt;)</b>	Potency raising : Ex : pow (5;3) = 125
<b>Round (&lt;expr&gt;)</b>	Rounded value of operator to the closest whole number Round (2.4) equals 2 Round (2.6) equals 3
<b>Sin (&lt;expr&gt;)</b>	Return the sine of <expr>radians. Sin (1.5708) equals 1 Sin (3.1416) equals 0
<b>Sqrt (&lt;expr&gt;)</b>	Return the square root of <expr>.
<b>Tangent (&lt;expr&gt;)</b>	Return the tangent of <expr> radians. Tan (0.7854) equals 1 Tan (3.1416) equals 0

#### IV4-4-c- Predefined calculation function

How to use a predefined calculation function :

**Check the box** "Use predefined calculation function".

**Select function** (See table below).

**Select channels** corresponding to parameters included in calculation

**Select the channel properties** . (Name, decimals, units are automatically selected)

**Validate with OK**

<b>Absolute humidity</b>	Is the ratio between mass of water vapor present to mass of dry gas. It is expressed in grams of water vapor per kilograms of dry gas. g/kg
<b>Dew point</b>	The temperature to which a given air parcel must be cooled at constant pressure and constant water vapor content in order for saturation to occur. It is expressed in degree Celsius.
<b>Wet temperature</b>	Temperature calculated with dry temperature and relative humidity in the air.. It is expressed in Celsius degree. °C tw.
<b>Enthalpy</b>	This is the heat change which occurs when 1 mol of substance reacts completely with oxygen to form products at 298K and 1 atm. It is expressed in kJ/kg.
<b>Analog conversion</b>	Function for converting an analog signal (current or voltage) to a physical quantity (for example a 0-10V input converts to a pressure from 0 to 500 Pa).
<b>WBGT</b>	Wet Bulb Globe Temperature. Temperature measured with a black ball thermometer and wet thermometer. Indoor or outdoor WBGT index calculation

#### IV4-5- Tools

This menu allows to reach

##### Language

Language software selection

##### Operator database management

See "Manage operator database" p 20.

##### Customer database management

See "Manage customer database" see p 20.

##### Duct types management

See chapter V3-2 p21.

##### Display data files

This function open "Data" Window showing unloaded datas. (ext .dlg).

##### Preferences.

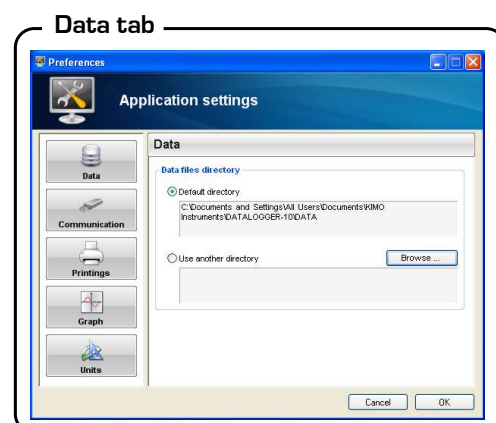
"Application settings" window appears. See below. This function allows newly unloaded dataset settings.



#### IV4-5-a- Data tab

This tab allows to choose the directory where files are saved with 2 choices :

- **Default directory**
- **Use another directory.** You can select it with "**Browse**" button.

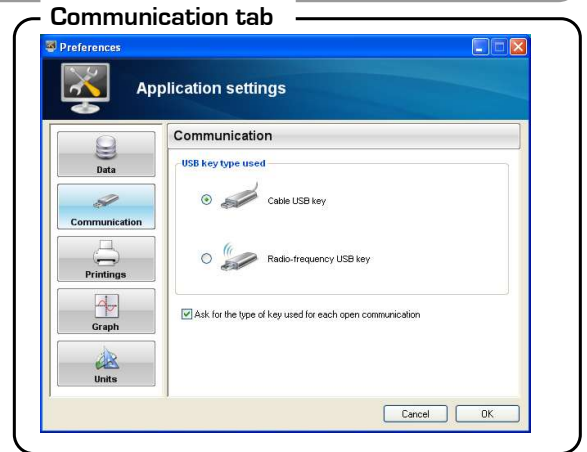


### IV4-5-b- Communication tab

This tab allows to select communication type. You must specify the key type used, if it is not recognized automatically :

- **Cable USB key**
- OR
- **Radio frequency USB key**

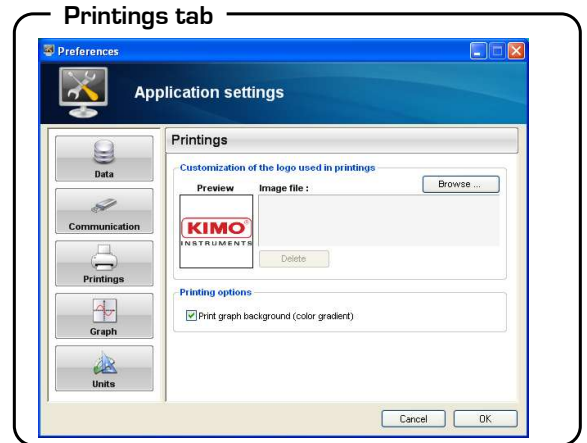
Tick the box , if you wish to choose « the type of key used for each open communication »



### IV4-5-c- Printings tab

This tab allows to customize printing with 2 choices :

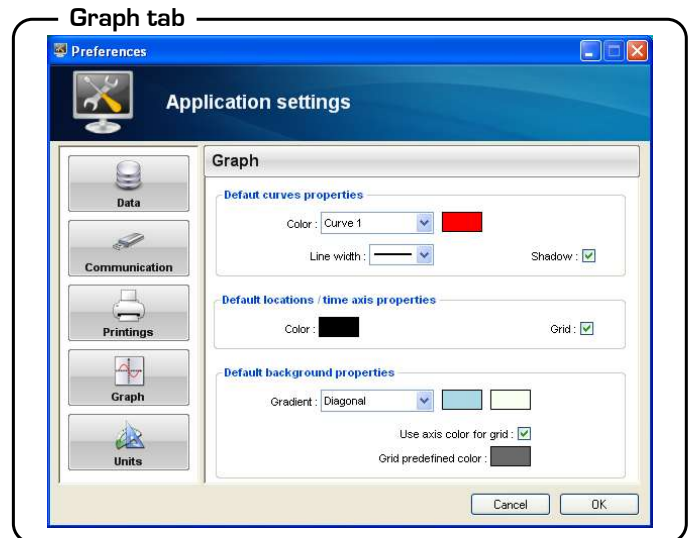
- **Logo customization**  
Look for the logo using "Browse" button
- **Printing options.** Allows to print or not the graph background.



### IV4-5-d- Graph tab

This tab allows to select the default configuration  
Three graph properties can be changed.

- **Default curves properties**  
Color of curve and line width
- **Default locations/time axis properties**  
Tick/tick off the "Grid" box if you want display or hide it, and select its color.
- **Default background properties**  
Select two colors for color gradient and use axis color for the grid



### IV4-5-e- Units tab

This tab allows to select units used for duct sizes

- mm or
- in



### IV4-6- Windows

At least, two files shall be opened to access this menu.

**Arrange** This function arranges opened windows according to :

**Cascade**  
**Tile vertically**  
**Tile horizontally**

#### Close all

A window appears to save before quitting. Click on "Yes" or "No" to quit.

#### Navigation between opened files

Select the file to be displayed.

### IV4-7- Help

This menu allows to access :

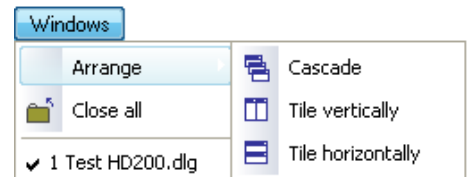
#### Help

Allows to display user manual. It is also available at the end of the software installation, and from the homepage or by pressing F1 on your keyboard.

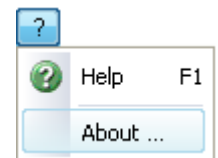
#### About

Displays software information.

#### Windows menu



#### Help menu



## V - Dataset information

Click on  or select "dataset information" in "Dataset".

This window shows all downloaded datasets, displayed in tab format. Choose your dataset. You can print your dataset by clicking on "Print".

### V 1 - Device

Information on this panel are :


Device type (e.g. : AMI300)  
 Serial number (e.g. : 07.09.0127)  
 Software version  
 Calibration date  
 Certificate number  
 Certificate validity



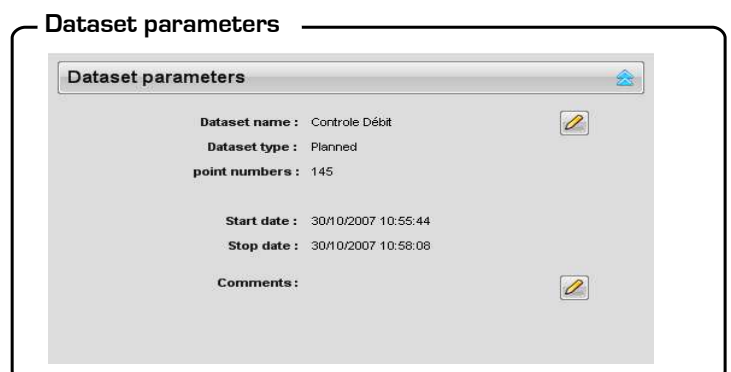
### V 2 - Dataset parameters

information on this panel are :

Dataset name (e.g.: TestHD200)

Click on . To change name. Click on "OK" to validate or "Cancel".

Dataset type (continuous or planned)  
 Point numbers (e.g. : 90)  
 Interval between two measurements (e.g. : 30 sec)  
 Starting date (e.g. : 10/08/2007 13:42:07)  
 Ending date (e.g. : 10/08/2007 14:31:37)  
 Comments (e.g. : RAS)

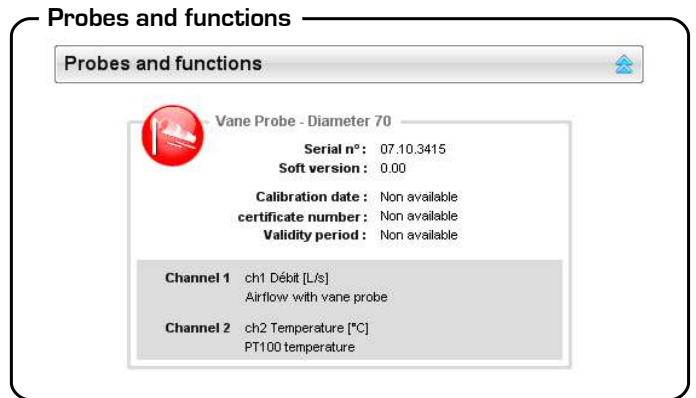


Click on  a window appears, to change comments. Click on "OK" to validate or "Cancel".

### V 3 – Probes and functions

Information on this panel are :

- Probes type used  
(e.g. : Standard hygrometry probe)
- Serial number of probes (e.g. : 7103415)
- Software version
- Calibration date (e.g. : 05/10/2007)
- Certificate number (e.g. : EMA52756947)
- Validity period (e.g. : 12 months)
- Each channel is presented with :
  - Channel number (e.g. : V2)
  - Measurement parameter (e.g. : Temperature °C)
  - Sensor type (e.g. : PT 100 probes)



### V 4 – Customer and operator

This panel provides information on the operator and customer.

The icon allows to delete information on the operator and customer.

The icon allows to open the "Operator database management" window or the "Customer database management" window. These windows summarize the customer or operator details sheet.

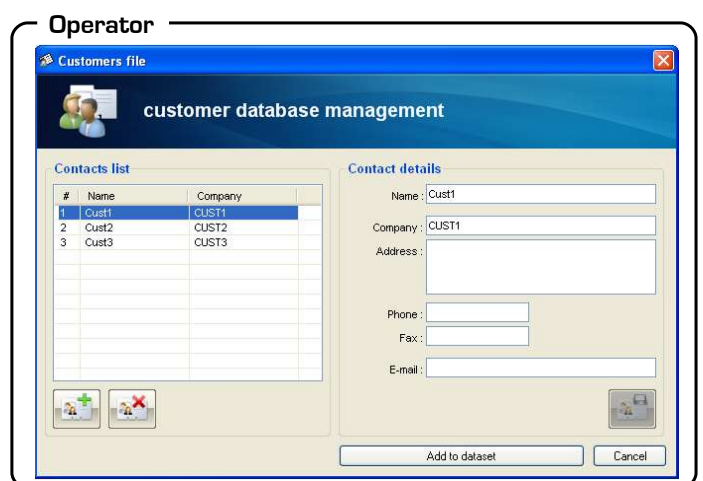
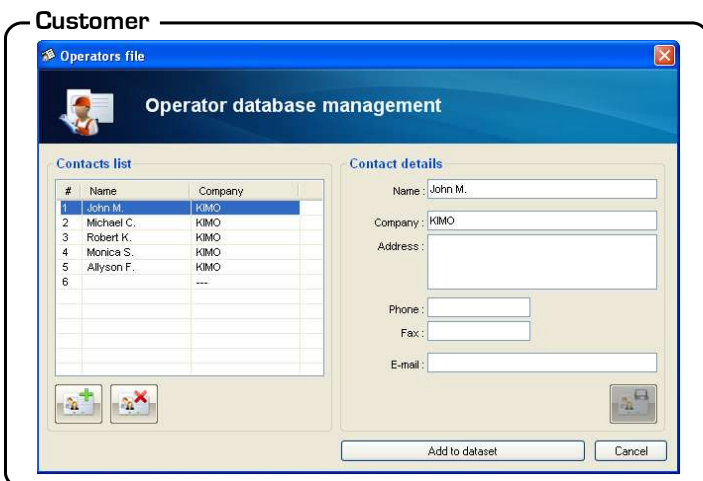
To create a new profile, click on "".

To delete a profile, click on "".

To save changes of a profile, click on "".

You can add the customer or operator profile of a dataset : click on profile, then click on "Add to dataset".

If you wish to quit without saving, click on "Cancel" to close the window.



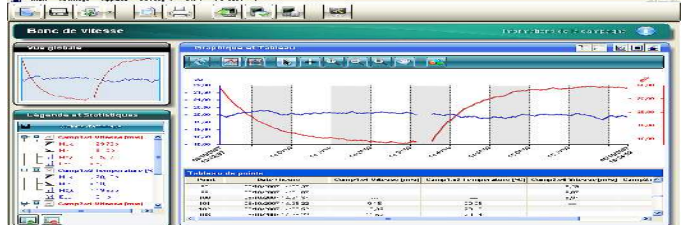
**VI – Planned dataset (Create a planned dataset)**

**VI 1 - Definitions**

A continuous dataset can be carried out with a device. It is composed of dated measurements. The method of measurement will be defined by the user: automatic (with interval) or manual, instant or average value. These datasets can not be planned via the software Datalogger-10.

**On the graph, values are represented as a function of time.**

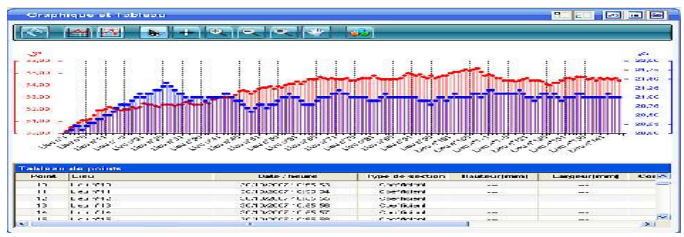
**Continuous dataset**



A planned dataset is composed of measuring points taken at different locations. For each location, you can enter a theoretical value and a tolerance for the main parameter controlled. The location creation must be carried out via the software Datalogger-10.

**On the graph, values are represented as a function of location.**

**Planned dataset**



A theoretical value is the value the operator must measured theoretically. e.g. : 50 m3/h.

The tolerance is the allowable deviation from a theoretical value. e.g.: the theoretical value is 50 and if its tolerance is ± 5 m3/h.. If the measured value is 52 m3/h, then the difference is acceptable.

**VI 2 – Create a planned dataset**

In the "Device" menu, click on "Schedule job". "Datasets planning" window appears and the dataset list already created is loaded, click on "Add a dataset".

**Labels in the screenshot:**

- Dataset name
- Units
- Export dataset
- Measurement mode
- Point duration
- Theoretical value unit and decimals
- Enter parameters of airflow location
- Add/Delete/Edit locations
- Change order of list
- Close
- Send planning to the device
- Planned datasets
- Dataset number
- Number of measurement locations
- Planned datasets
- Add dataset
- Load dataset
- Duplicate dataset
- Save dataset
- Delete dataset

**Steps to follow :**

1. Dataset name
2. Measurement mode  
instant value, point by point average, automatic average, automatic point by point average
3. Point duration. Define the duration (in seconds), if the measurement mode is the automatic point by point average
4. Unit for the theoretical value
5. Decimals from 0 to 4
6. Tick/untick the case "enter parameters of air flow calculation" see "Edit location" p.21
7. Add / Delete / Edit location see "Edit location" p.21
8. Click on "Send planning to the device"
9. Save

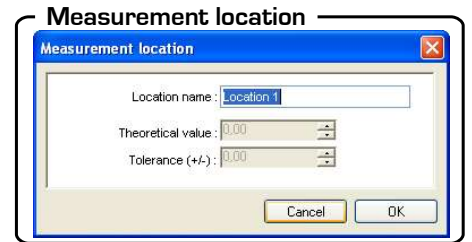
**VI 3 – Edit location**

If a unit has been selected, you can enter a theoretical value for this channel. The measured value will be compared to this value. To enter or change location details, click on location, then click on "Edit location" : the "Measurement location" window opens.

**VI-3-1- If the box "Enter parameter of air flow calculation" is not ticked**



Enter :

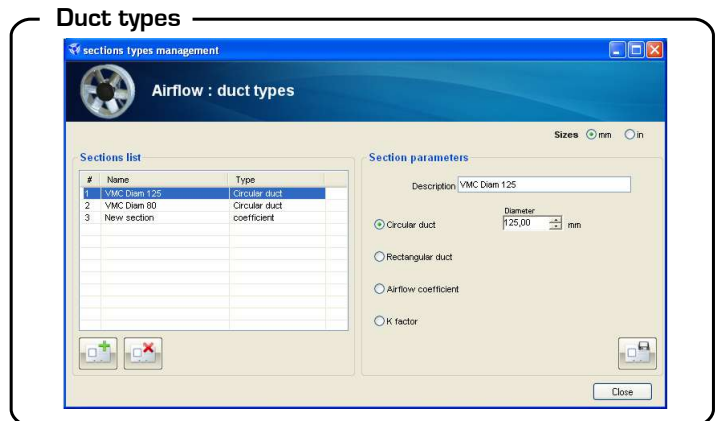
- Location name
  - Theoretical value (Only if a unit has been selected)
  - Tolerance (Only if a unit has been selected)
- then click on "OK"



**VI-3-2- If the box "Enter parameter of air flow calculation" is ticked**

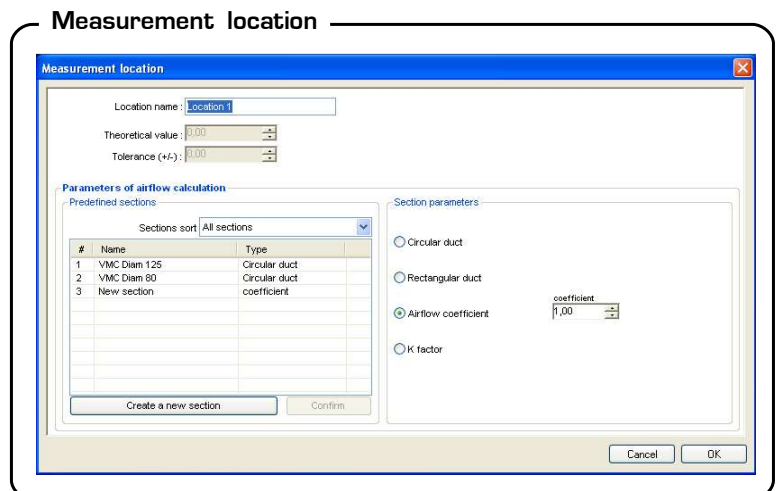
Click on "Edit location" then "Create a new section" to enter, change or complete technical datas on ducts entered by the operator. You can also display this window with "Tools" menu.

1. Click on "  " to create a new profile
2. Define duct name  
e.g. : VMC Ø 200
3. Define duct type and its details (diameter for example).  
They change according to the type.
4. Ducts are proposed :  
circular,  
rectangular,  
coefficient (with a cone-flow)  
or factor K
4. Save the profile with the icon "  "
5. Close the window.



On "Measurement location", enter :

1. Location name
2. Theoretical value (Only if a unit has been selected)
3. Tolerance (Only if a unit has been selected)
4. Select an existing duct or create a new duct (click on "Create a new section" and the "Airflow : duct types" window opens, see above)  
You can classify ducts predefined by type.
5. Select your duct and click on "OK" to validate.







## Configuration minimum



Minimum system requirements

Système d'exploitation / Operating system .....	Windows 2000, XP, VISTA
Port de communication / Communication port .....	USB
Lecteur CD / CD-ROM drive .....	✓
Internet explorer 6 .....	✓
Mémoire RAM / RAM .....	256 Mo / 256 MB
Espace disque / Free hard disk space .....	125 Mo / 125 MB

## Insérez le CD d'installation



Insert CD in your CD-ROM

Si l'installation ne se lance pas :

- Allez dans : **Poste de travail**.
- Repérez le lecteur CD dans lequel est inséré le **DATALOGGER-10**.
- Faites un clic droit sur le lecteur et cliquez sur "explorer".
- Lancez l'application "**setup.exe**"

Laissez-vous guider...

Installation should run automatically.  
If not, proceed manually : from your Windows desktop, open start menu. Click run. In radio dialog box, enter "D:" or valid CD-ROM, drive letter. Click ok. Click on SETUP.exe to launch installation.

**Follow instructions...**

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