



# DataCOLD SOFTWARE PACKAGE USER MANUAL





USER MANUAL

*DataCOLD*  
*Software Package*



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# INTRODUCTION

Welcome to the DataCOLD *Software package*, the management software for temperature recorders DataCOLD 250 and 500 under Windows®.

This package of software will enable you to manage all your recorders, store information in a database and create numerical and graphical reports.

Communication with the recorders is by means of an infrared cable, a GSM or by radio frequency DECT. Using the MapPoint® software, you will also be able to locate recorders fitted with GPS.

This essential tool for monitoring temperature variations in all your vehicles has many functions, such as setting up the recorders, monitoring vehicles, handling alarms, etc.

This manual gives the main characteristics of the program. Database Management will be explained and you will be advised how to use your DataCOLD software package as effectively as possible.



# CH I

## INSTALLATION & PERSONALISING

This part explains how to install your DataCOLD Software Package from the CD-ROM which contains the following software:

- DataLOG,
- DataMON,
- DataDECT,
- DataCOM,
- InfraCON.

DataCOLD Software package requires the following hardware and software configuration:

- Windows® NT4, 98, Me, 2000 & XP
- A PC with a Pentium Processor (or faster)
- 100 Mb space available on your hard disk
- a CD-ROM reader for installing the applications
- a minimum screen resolution of 800x600

### *Installation of the DataCOLD software*

a) Insert the DataCOLD Software Package CD in the drive. Installation starts automatically. If it does not, click on the SETUP.EXE file in the CD-ROM directory to start the installation.

b) Select the software you wish to install and follow the instructions. All the software will be installed by default in the *C:/DataCOLD* directory.

To be installed:

- DataLOG: management of data, reports, setup of recorders



Only to be installed if using:

- DataMON: monitoring of recorders  
(only to be installed for GSM or DECT) communication
- DataCOM: communication GSM management
- DataDECT: communication DECT management



When making this choice, only select the necessary software in order to minimise the risk of conflicts. So, if you are only using the infrared cable connection, select DataLOG only.

Once the installation of DataLOG has been completed, it must be configured (see CH II, 1. Configuration of the DataLOG software)



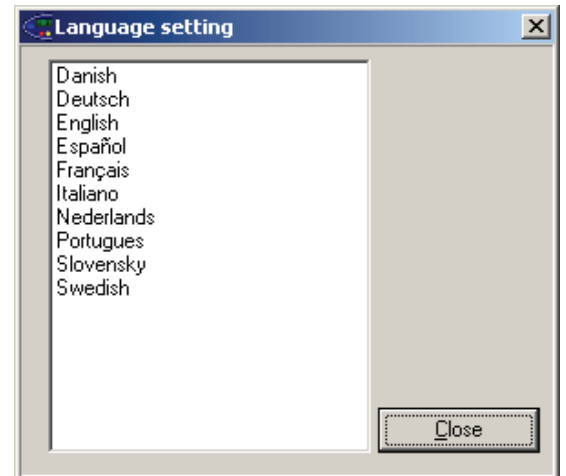


This section describes the main characteristics and explains how to use the DataLOG program. The main function of the program is to manage all the recorders, store information in a database and create numerical, graphical and event reports.

## 1. Configuration of the DataLOG software

### 1.1. Language

Select the language from the: *Tools/Language setting menu*. Then restart the DataLOG program so that everything is translated.

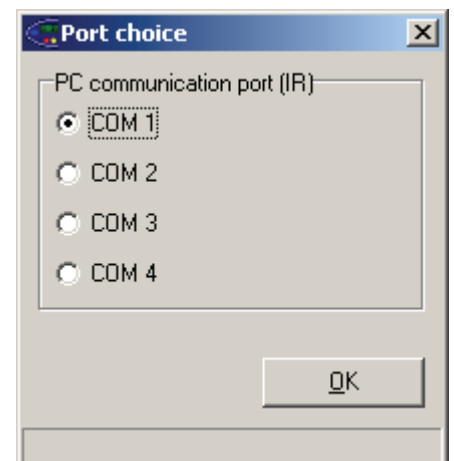


### 1.2. Units of temperature

The two units of temperatures are °C (Celsius) and °F (Fahrenheit). At any time you can select one or the other by selecting the icon in the task bar of the main window.

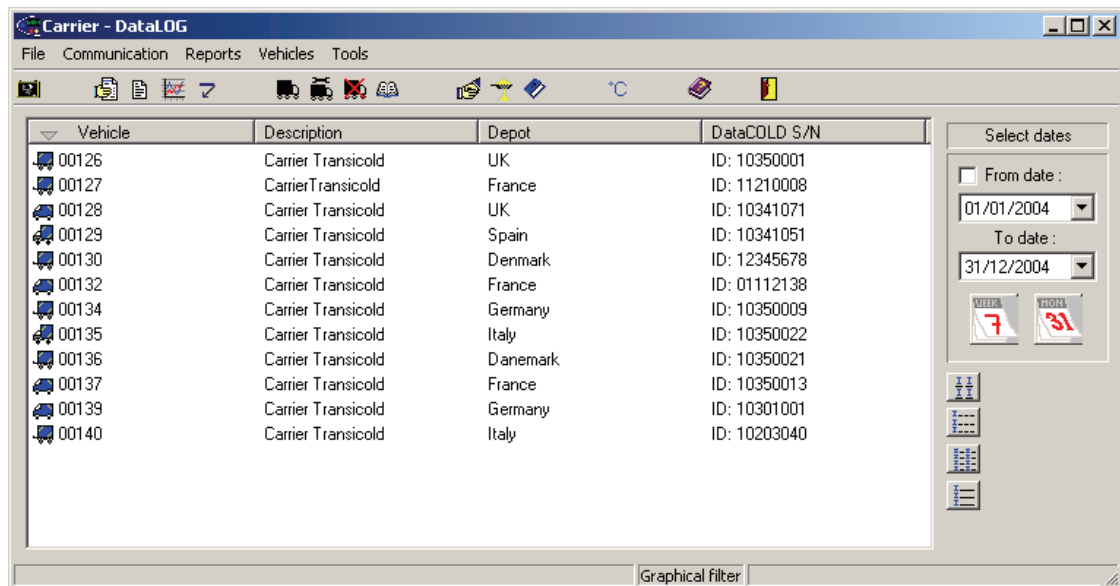
### 1.3. The infrared cable

- Connect the infrared cable to the RS232 DB9 port of the computer (COM1 or COM2). There is no need to install special drivers, since the necessary and sufficient drivers are included in the DataLOG software. Only use the cable supplied by Carrier.
- Ensure that the COM port of the computer is available and that no other software is using this port. Finally, the choice of the COM port used for the cable is made from the configuration menu: *Tools/Port choice*.



## 2. Main window of the DataLOG program

The main window of the DataLOG is shown below.



### 2.1. The tool bar

This icon bar is located just below the menu, at the top of the screen. It gives rapid access to all the main DataLOG functions available in the menu.

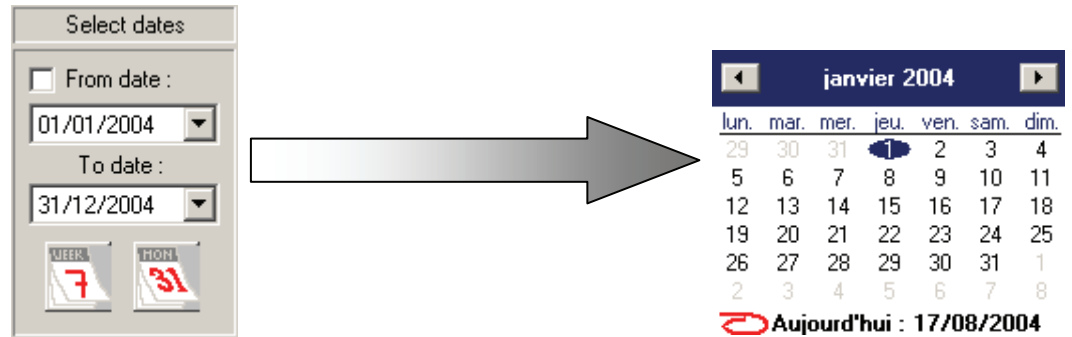
### 2.2. The vehicle part

This main part of the screen displays all the vehicles listed in the database. By selecting a vehicle with the mouse, the data referring to that vehicle can be displayed by:

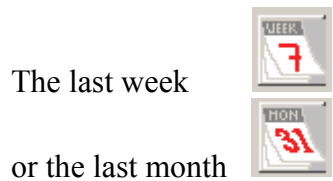
- selecting any of the available reports via the *Reports* menu.
- selecting any of the available reports from the tool bar.
- right clicking with the mouse and selecting the report desired from the contextual menu.

### 2.3. Selecting the period

Zone *Selecting dates* on the right hand side of the screen enables you to select a given period. Only data relating to that period will be displayed.



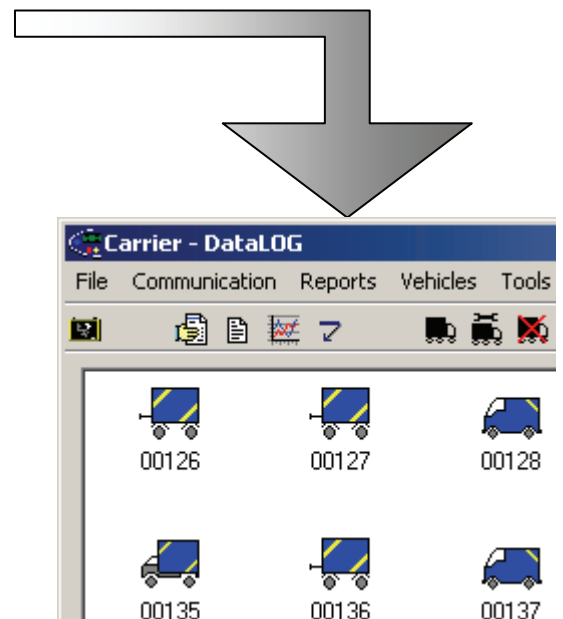
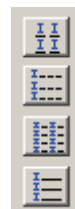
You can also select:



### 2.4. The display mode

Four icons are used to change the vehicle display format:

- View with large icons
- Detailed view
- In line view
- View with icons in a column



### 3. Description of the tool bar

The tool bar is used to access the main functions of the DataLOG program rapidly. The use of each of these icons is described below. Each of these tasks will be described in detail later in this manual.



**Report icons:** These icons display summary, numerical, graphical or event reports. The DataLOG program is able to provide immediately usable data which is printable in the form of numerical or graphical reports.



**Vehicle icons:** These icons are used to add, modify or remove vehicles from the database. You can also display a summary report of the vehicles and this summary can be printed or saved.



**DataLOG configuration icons:** These icons are used to configure the DataLOG program. You can select the COM port used by the infrared cable, the language and the units of temperature (°C or °F). A filter, useful for producing reports, is also available.



**Communication icon:** This icon causes the communication window to appear. This part of the program is used to communicate with the DataCOLD 500 R/T and DataCOLD 250 R/T recorders. The three modes of communication are as follows:

- InfraCON (Infrared Cable)
- DataCOM (GSM)
- DataDECT (DECT).



Access to help.







Use this icon to exit the program.




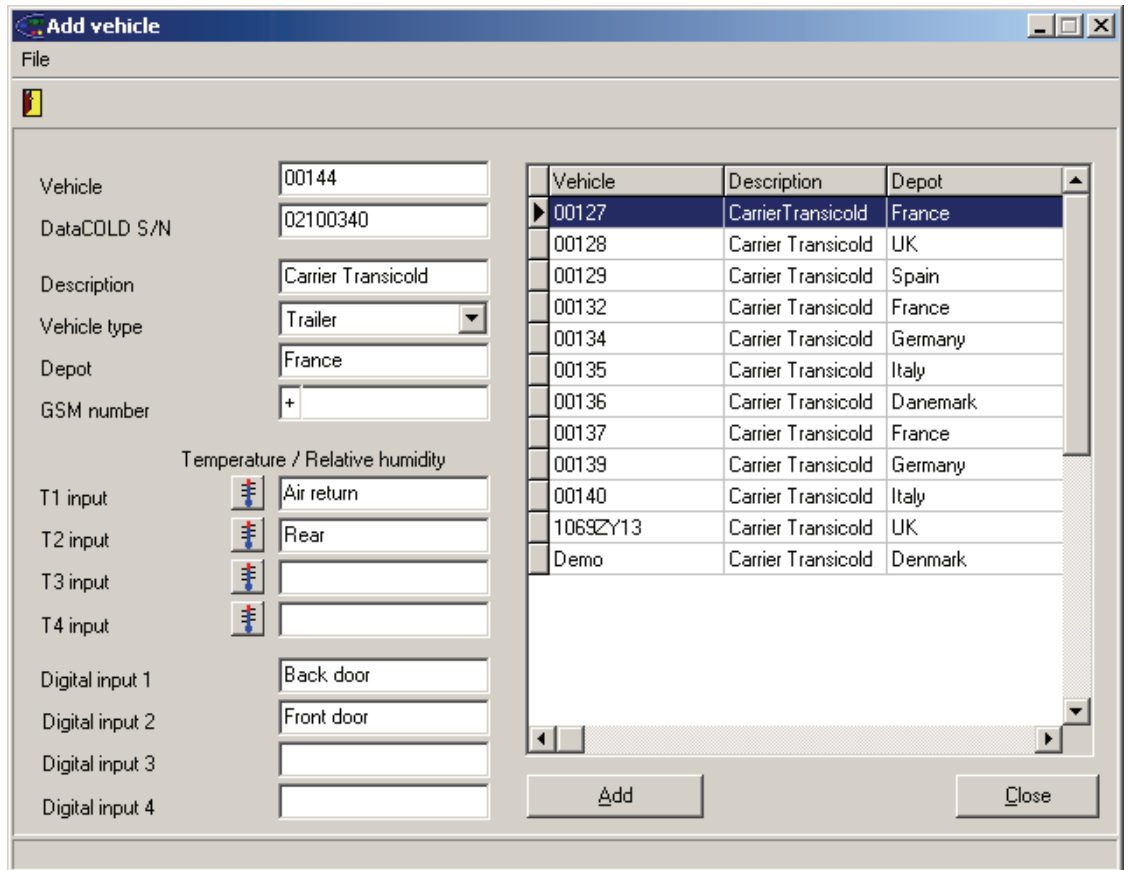
It is easier to recover data from a recorder which will automatically create the new vehicle. This gives you the serial number of your recorder. You can then complete certain fields.

## 4. Vehicle management

The vehicle icons     are accessible from the tool bar of the main window.

### 4.1. To add a vehicle

Click on the  icon. The following window appears :



The 'Add vehicle' dialog box contains the following fields and a table:

- Vehicle: 00144
- DataCOLD S/N: 02100340
- Description: Carrier Transicold
- Vehicle type: Trailer
- Depot: France
- GSM number: +
- Temperature / Relative humidity section:
  - T1 input: Air return (Temperature icon)
  - T2 input: Rear (Temperature icon)
  - T3 input: (Temperature icon)
  - T4 input: (Temperature icon)
  - Digital input 1: Back door
  - Digital input 2: Front door
  - Digital input 3: (Empty)
  - Digital input 4: (Empty)

Vehicle	Description	Depot
00127	Carrier Transicold	France
00128	Carrier Transicold	UK
00129	Carrier Transicold	Spain
00132	Carrier Transicold	France
00134	Carrier Transicold	Germany
00135	Carrier Transicold	Italy
00136	Carrier Transicold	Danemark
00137	Carrier Transicold	France
00139	Carrier Transicold	Germany
00140	Carrier Transicold	Italy
1069ZY13	Carrier Transicold	UK
Demo	Carrier Transicold	Denmark

Buttons: Add, Close





When reading data from the recorder, the names of the T and Digital inputs will be replaced by those of the recorder.



When adding a vehicle, ALWAYS configure inputs T1-T4 according to whether they are temperature or humidity sensors, otherwise the data displayed by the PC will be incorrectly interpreted.

On opening, the vehicle fields are empty and those for the sensors have default names. In the left hand side of the window:


- Enter all the characteristics of the vehicle to be added (name, serial number, description, etc.)
- You can also name the (T1, T2, T3, T4) inputs and specify whether they are temperature  or relative humidity sensors : click on the corresponding icon.

Click on *Add* to confirm addition of the new vehicle. The *Vehicle* and *DataCOLD S/N* fields must be completed before a vehicle can be added.




If you leave this window without clicking on *Change*, the corrections will not be confirmed.

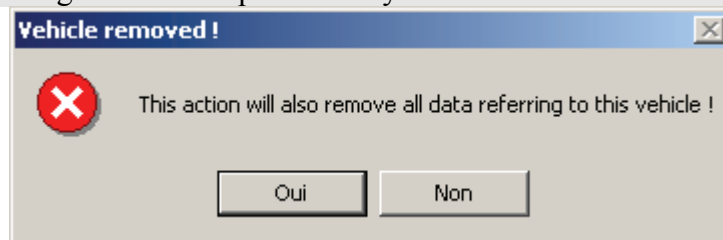
#### 4.2. To modify a vehicle

- Click on the  icon. A window similar to that for adding a vehicle appears.
- From the list of vehicles, select the vehicle to be modified. Information concerning that vehicle will be displayed in the left hand side of the window.
- Change the desired information, then click on *Modify* to confirm the changes.


#### 4.3. To remove a vehicle

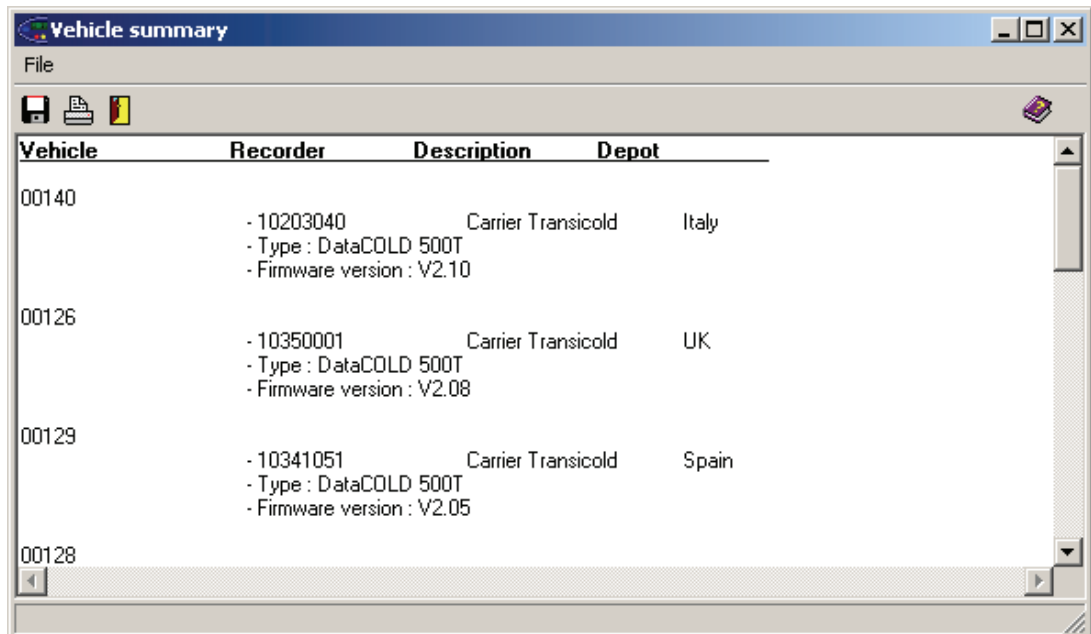
- Click on the  icon. A window similar to that for adding a vehicle appears.
- Select the vehicle you wish to remove from the right hand part (its characteristics are displayed in the left hand part) then confirm with the *Remove* button.

The removing of a vehicle permanently deletes all the data in the database.



#### 4.4. The vehicle summary





Click on the  icon. The following window appears:

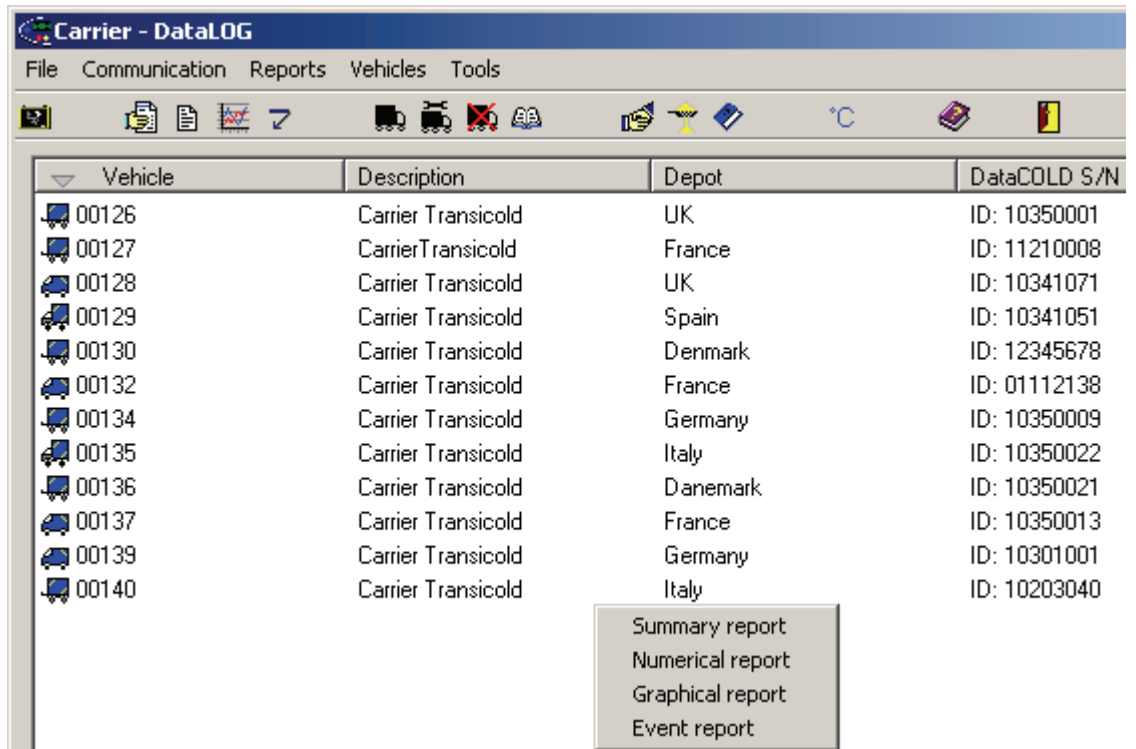


Vehicle	Recorder	Description	Depot
00140	- 10203040	Carrier Transicold	Italy
	- Type : DataCOLD 500T		
	- Firmware version : V2.10		
00126	- 10350001	Carrier Transicold	UK
	- Type : DataCOLD 500T		
	- Firmware version : V2.08		
00129	- 10341051	Carrier Transicold	Spain
	- Type : DataCOLD 500T		
	- Firmware version : V2.05		
00128			

The *Vehicle Summary* displays a brief description of each vehicle: The name of the vehicle, serial number, type of recorder and the last software version installed. There is also a *Description* column and another giving the *Depot* of the vehicle.

## 5. Reports

Reports     is used to produce statements for periods varying from a few minutes to several months. These reports, whether they are summary, numerical, graphical or event, use data supplied directly by the recorders or that supplied by the export files.



The screenshot shows the 'Carrier - DataLOG' software interface. The window title is 'Carrier - DataLOG'. The menu bar includes 'File', 'Communication', 'Reports', 'Vehicles', and 'Tools'. The toolbar contains various icons for file operations, vehicle management, and reporting. The main area displays a table of vehicles with columns for 'Vehicle', 'Description', 'Depot', and 'DataCOLD S/N'. A context menu is open over the table, listing report types: 'Summary report', 'Numerical report', 'Graphical report', and 'Event report'.

Vehicle	Description	Depot	DataCOLD S/N
00126	Carrier Transicold	UK	ID: 10350001
00127	Carrier Transicold	France	ID: 11210008
00128	Carrier Transicold	UK	ID: 10341071
00129	Carrier Transicold	Spain	ID: 10341051
00130	Carrier Transicold	Denmark	ID: 12345678
00132	Carrier Transicold	France	ID: 01112138
00134	Carrier Transicold	Germany	ID: 10350009
00135	Carrier Transicold	Italy	ID: 10350022
00136	Carrier Transicold	Danemark	ID: 10350021
00137	Carrier Transicold	France	ID: 10350013
00139	Carrier Transicold	Germany	ID: 10301001
00140	Carrier Transicold	Italy	ID: 10203040

- Summary report
- Numerical report
- Graphical report
- Event report





You can also change the quantity of data by using


the filter  on the main page (cf. CH II, 6. The filters)

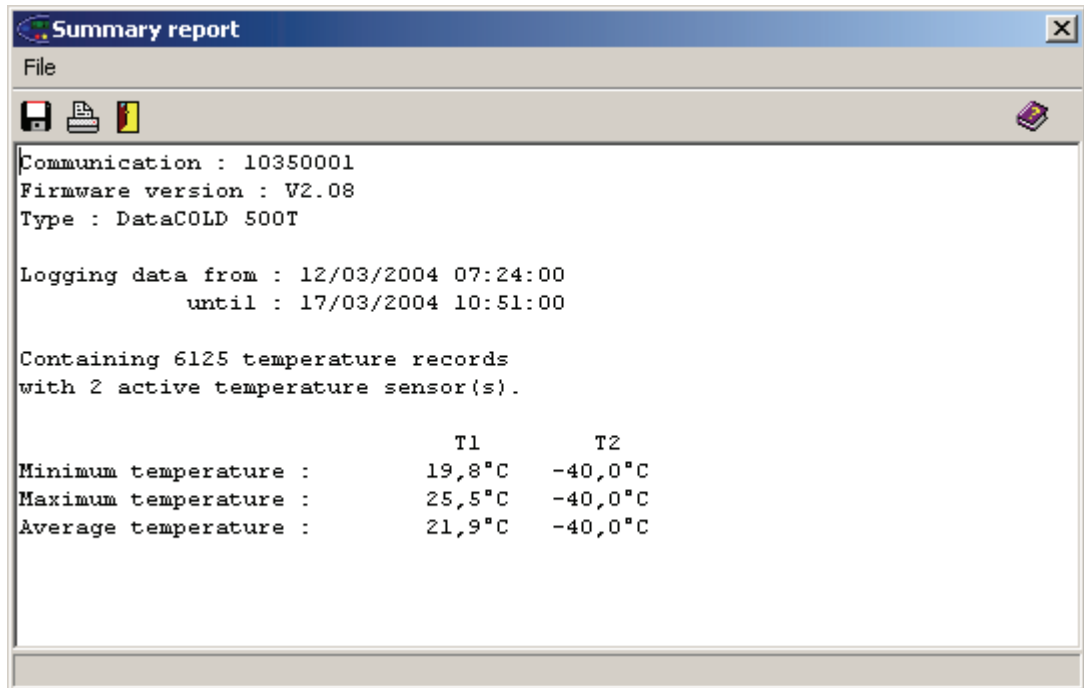
## 5.1. Summary report

This report is a brief summary of the characteristics of a vehicle:

- serial number of the recorder
- period of the data in the database
- number of recordings made during this period and the number of sensors used
- the extremes and averages of each sensor during this period.

The user can also rapidly compare different vehicles and their use.

To display a summary report, select a vehicle from the list, then click on the  icon. The following window is displayed:



## 5.2. Numerical report




If the recorder is connected to a Carrier refrigeration unit, the report will display additional events such as set points, cooling, and unit alarms.

A numerical report displays:


- The date and time of the measurement or event
- the 4 values of temperature
- activation of the digital inputs (the cell becomes blue), the digital input fields are labelled from 1 to 4
- the values of the set points, labelled C1, C2 and C3 for the various compartments.

This type of report uses the contents of the databases. It can be recorded in a file with \*.txt format or printed, but its contents cannot be changed.

To display a numerical report, select a vehicle from the list, then click on the  icon. The following window is displayed:

Numerical report												
File												
Vehicle : 00136		Digital input 1 : Réfrigération				Firmware version: V2.10		Digital input 3 : Réfrigération				
DataCOLD S/N :10350021		Digital input 2 : Porte arrière				Digital input 4 : Dégivrage						
Record number : 6832												
Date	Time	Air retour	Rear	Avant	Sonde	1	2	3	4	C1	C2	C3
14/06/2004	18:55:00	-13,5	-13,5							-24,0		
14/06/2004	18:40:00	-12	-10,8							-24,0		
14/06/2004	18:25:00	-9	-6,3							-24,0		
14/06/2004	18:10:00	4,8	-3							-24,0		
14/06/2004	18:05:00	Defrost 1 End										
14/06/2004	17:58:00	Defrost 1 Start										
14/06/2004	17:55:00	-7,5	-2,1							-24,0		
14/06/2004	17:40:00	9	6,9							-24,0		
14/06/2004	17:31:00	Defrost 1 End										
14/06/2004	17:25:00	-0,3	13,2							-24,0		
14/06/2004	17:24:00	Defrost 1 Start										
14/06/2004	17:13:00	Unit setpoint compartment 1 : -24,0 °C										
14/06/2004	17:13:00	Unit compartment 1 On										




You can also modify the quantity of data by using the filter  on the main page (see CH II, 6. The filters)

You can filter the numerical report and only carry out the desired actions:

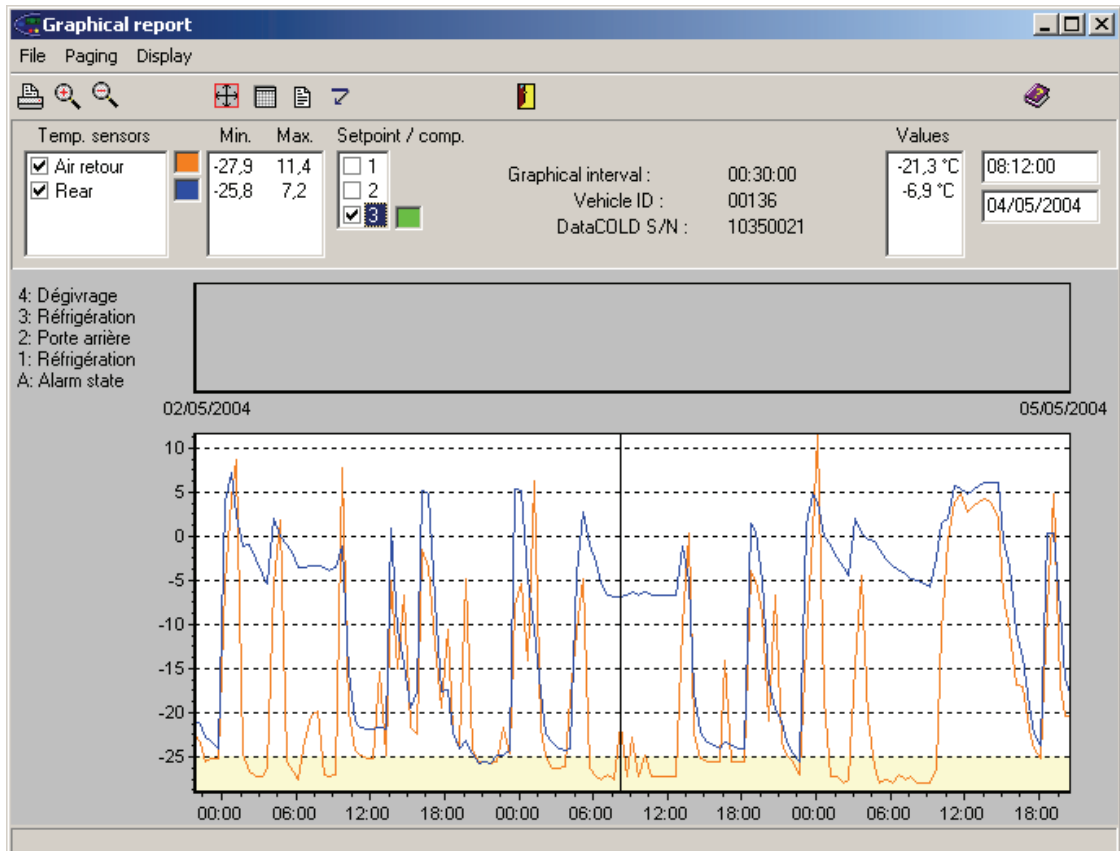
- position the mouse anywhere in the numerical report window and right click to cause this menu to appear:
- by deselecting certain filters, the data concerned will no longer appear in the report.

- ✓ Temperature alarm On
- ✓ Temperature alarm Off
- ✓ Digital alarm On
- ✓ Digital input On
- ✓ Digital input Off
- ✓ Parameter PIN code entered
- ✓ Supervisor PIN code entered
- ✓ Parameter PIN code changed
- Diagnostic type
- ✓ Temperature alarm confirmed
- ✓ Digital alarm confirmed
- ✓ Unit setpoint compartment
- ✓ Unit compartment
- ✓ Unit connection lost
- ✓ Unit alarm
- ✓ Defrost
- ✓ Firmware update

### 5.3. Graphical report

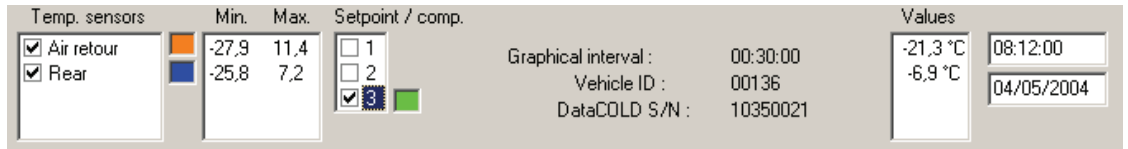
This report produces a graph for a selected vehicle showing the variations in temperature measured by the active sensors. To display a graphical report, select a vehicle from the list, then click on the  icon. The following window will appear:

  
**You can change the colours for the various temperature ranges by selecting *Display* in the menu bar.**

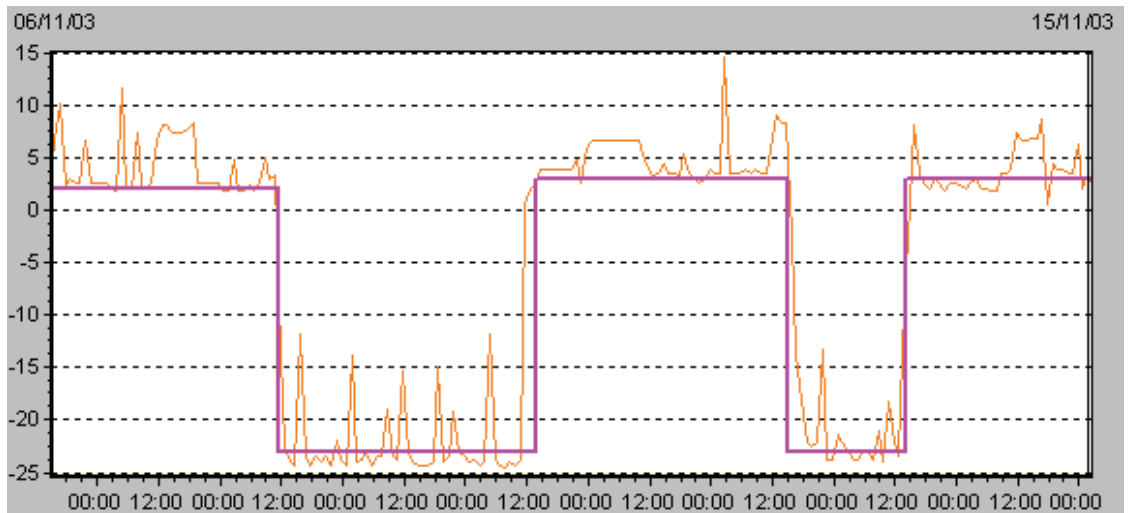


The graphical report includes 3 parts:

- The top part gives the names of the active temperature sensors, the colour of the curves, the values at the position of the cursor and the maximum and minimum visible values.  
You can select the curves you wish to see and the set points of the cooling unit for each compartment.





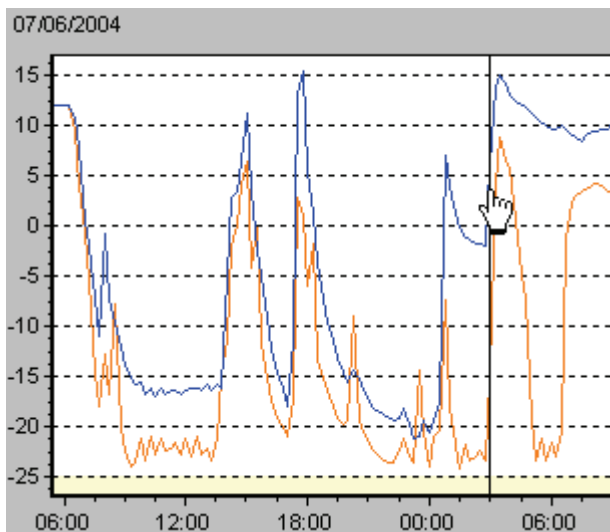
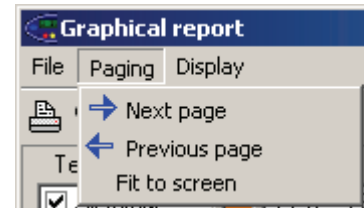
- The central part gives a graphical representation of the sensors.
- The lower part is a graphical representation of the temperature or humidity sensors.



### 5.3.1. To display a graph


Various graphical scales are possible:

- On opening, the graph displays the data for the last full day in the database. By selecting *Fit to screen*  in the task bar or in the menu bar of the window, you will see all the data for the selected vehicle.
- To return to the data for the last full day, select *Daily based*  in the task bar or in the menu bar of the window.
- For greater accuracy, press one of the directional (arrow) keys on the keyboard, or click on a curve: a vertical bar will be displayed on the graph. The values corresponding to the position of the bar are displayed in the right hand side of the window.



Values	
-16,5 °C	07:03:00
-14,7 °C	04/04/2004
-25,8 °C	
13,5 °C	



The up and down navigation keys can be used to move the cursor by 10 measurement steps and the right and left keys to move it one step only. The functions of this report can also be used to move around in the graph:

- You can go back to the previous day or on to the next by clicking on the  icons located in the tool bar.
- At any time, by holding down the right mouse button and moving the cursor, you can cause the graph to move.

When graphical reports open, you may see a message indicating the number of data points that will be used to construct the graph (ratio).

In fact, some databases contain many values, so to obtain more rapid drawing, the software only takes part of the values in the database. To work with all the information, select a shorter period in the right hand side of the main window.

### 5.3.2. Numerical and event reports

In the graphical report tool bar you can see the icons for the numerical report  and the event report . If you click on either of these icons, the reports corresponding to the selected period and the ratio of the graphical report will be displayed.

### 5.4. Event report

The event report displays events occurring at the recorder. Activation and deactivation of the digital inputs, temperature alarms, access to the configuration menu are also recorded.



If the recorder is connected to a Carrier refrigeration unit, the report will display additional data such as set points, defrost, alarms.



The most common Types of Diagnostic are signal 1, signal 2 and signal 7.

Date	Time	Type	Signal
18/06/2004	14:48:00	Defrost 1 Off	
18/06/2004	14:48:00	Digital input Off	Dégivrage
18/06/2004	14:40:00	Defrost 1 On	
18/06/2004	14:40:00	Digital input On	Dégivrage
18/06/2004	14:34:00	Unit setpoint compartment 1 : -23,0 °C	
18/06/2004	14:34:00	Unit compartment 1 On	-
18/06/2004	14:33:00	Diagnostic type	3
18/06/2004	14:33:00	Diagnostic type	2
18/06/2004	14:32:00	Unit setpoint compartment 1 : -23,0 °C	
18/06/2004	14:32:00	Unit compartment 1 On	-
18/06/2004	13:36:00	Unit connection lost	-
18/06/2004	13:36:00	Unit compartment 1 Off	-
18/06/2004	13:18:00	Unit setpoint compartment 1 : -23,0 °C	

*Diagnostic type* events record actions carried out directly on the recorder:

- Diagnostic Type 1 = Reset
- Diagnostic Type 2 = Power off
- Diagnostic Type 3 = Power on
- Diagnostic Type 5 = Reset factory setting
- Diagnostic Type 6 = DataCOLD memory cleared
- Diagnostic Type 7 = Reset DataCOLD after updating software

The *vehicle summary* (see *CH II, 4. Vehicle management* ) and summary, numerical and event reports may be printed and saved in \*.txt format.




The option to activate a day of the week will only be accessible after confirming the day. Tick **ON/OFF** of the selected day.



When a filter is applied to graphical and/or numerical reports, an indication appears at the bottom of the main window of the program DataLOG.

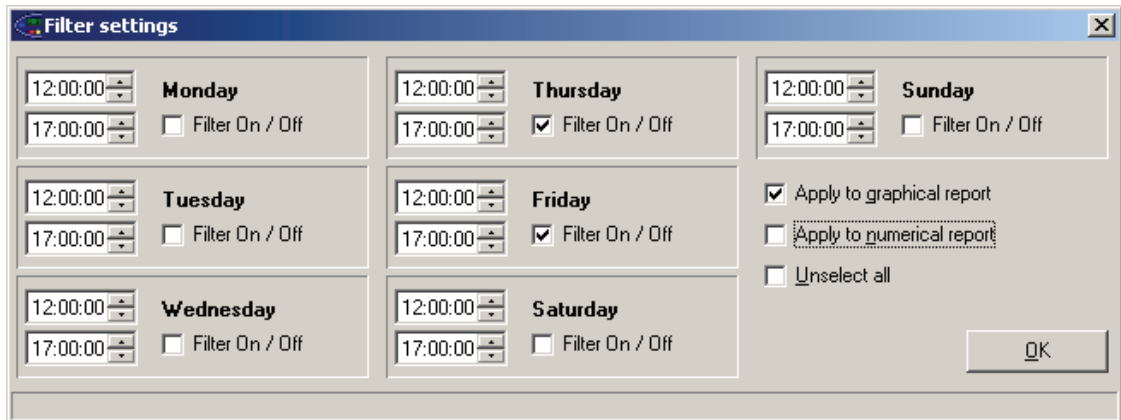
Graphical filter

## 6. Filters

This option, accessible from the menu bar by selecting *Tools/Filter setting* or by selecting the icon  in the tool bar, is used to filter the data in graphical and numerical reports.

Several options are available:

- Activate a day of the week :  
Activate a filter for the selected day.
- Modify the filter for that day :  
Modifying the time filter will give you greater control in selecting the part of the day to be displayed.
- Activate the filter for the graphical and/or numerical report
- Deactivate the filter.:  
Deactivating the filter will stop the filter for graphical and numerical reports. All the data will then be displayed.



Day	12:00:00	17:00:00	Filter On / Off
Monday	12:00:00	17:00:00	<input type="checkbox"/>
Tuesday	12:00:00	17:00:00	<input type="checkbox"/>
Wednesday	12:00:00	17:00:00	<input type="checkbox"/>
Thursday	12:00:00	17:00:00	<input checked="" type="checkbox"/>
Friday	12:00:00	17:00:00	<input checked="" type="checkbox"/>
Saturday	12:00:00	17:00:00	<input type="checkbox"/>
Sunday	12:00:00	17:00:00	<input type="checkbox"/>

Apply to graphical report:   
Apply to numerical report:   
Unselect all:

OK

If you attempt to create reports and you continuously receive messages indicating that no data is available, it could be that you have used the filter incorrectly. That can happen if the filter is active and you have selected the wrong day or period.

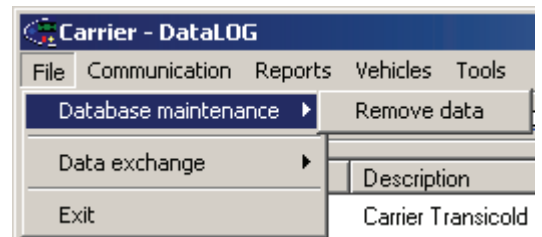
## 7. Data management

This part describes how to delete the data in the database and export data from the same database.

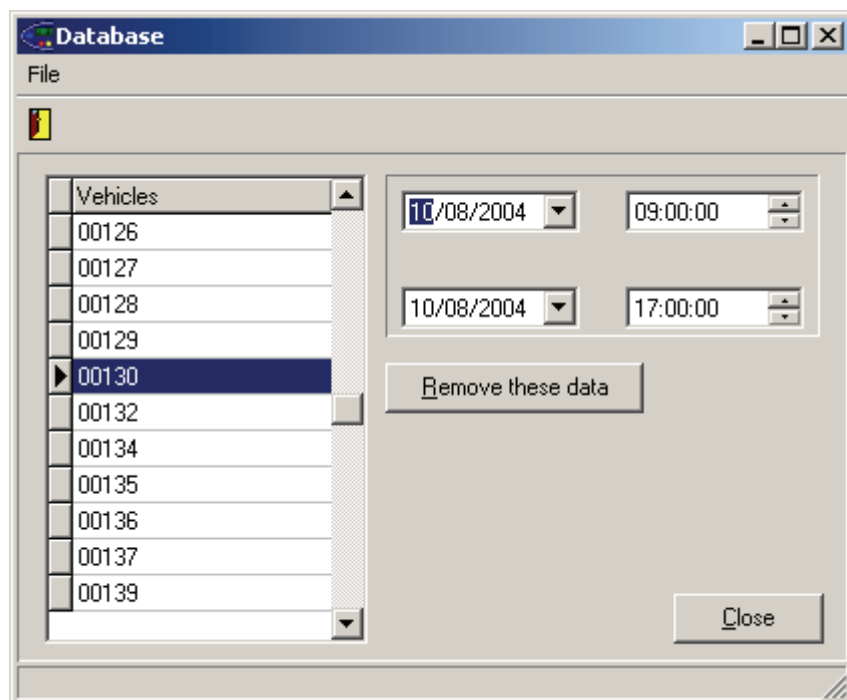
### 7.1. Deleting data

This option modifies the contents of the database. Warning: all the selected data will be deleted from the database.

To access this option: select the *File / Database maintenance / Remove data menu*



A window listing the vehicles in the database appears. Select the vehicle whose data is to be deleted, then select a period.



Confirmation with the *Remove these data* button will cause a confirmation window to appear which must be confirmed so that the data is fully removed from the database (see *CH II, 7. Data management*).

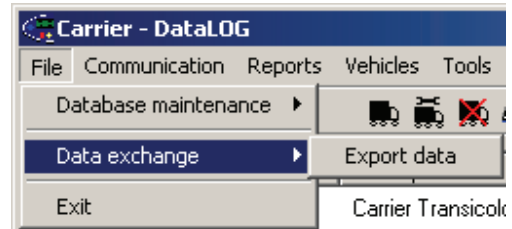




## 7.2. Export data

This option is used to generate export files. These can be saved or information can be transferred between various systems using the DataLOG program.

- To access this option, select File/Data exchange/Export data in the menu bar.
- From the list (left hand side of the window), select the vehicle whose data is to be exported, then select a period of time for which the data is to be saved in an export file in \*.TMS format.



- Confirm with the Save as ... button. You must also enter the \*.TMS file name and its destination directory.

When importing data, whatever the means of communication, the file is saved in the *C:\DataCOLD\Backup* directory. Files saved there are not deleted or modified when carrying out the *Database maintenance /Delete data* and *Exchange data/Export data* functions so you can recover old data, for example, after accidental erasure.

## 8. Saving data

To prevent any loss of data, it is important to back it up on CD-ROM or on your network server. The database called *DATALOG.GDB* is located in the *C:\DataCOLD\Database* directory and contains all the data.

A request to import data into the database is generated automatically by DataLOG after each new reading of data between the recorder and the PC (infrared, GSM, DECT).

As long as you do not agree to import this data, it is saved in a folder *Result* in the *C:\DataCOLD\Result* directory. During importation into the database, this information is erased from the *Result* directory and placed in the *C:\DataCOLD\Backup* directory

At each importation of the file, that is for each command: *Read new data* (see *CH III, 3. Read new data*), the file name is updated.


The format of \*.BMS files is as follows:

- 1: *DF*
- 2: serial number
- 3: name of vehicle
- 4: date and time of first importation of the file
- 5: date and time of second importation of the file
- ...date and time of last importation of the file.

## CH III

# INFRARED COMMUNICATION


This part of the manual describes the method of communication between the DataCOLD recorders and the DataLOG program.

The communication window is produced by selecting the  icon in the main window. The connections can be of several types:

- Infrared.
- GSM.
- DECT.

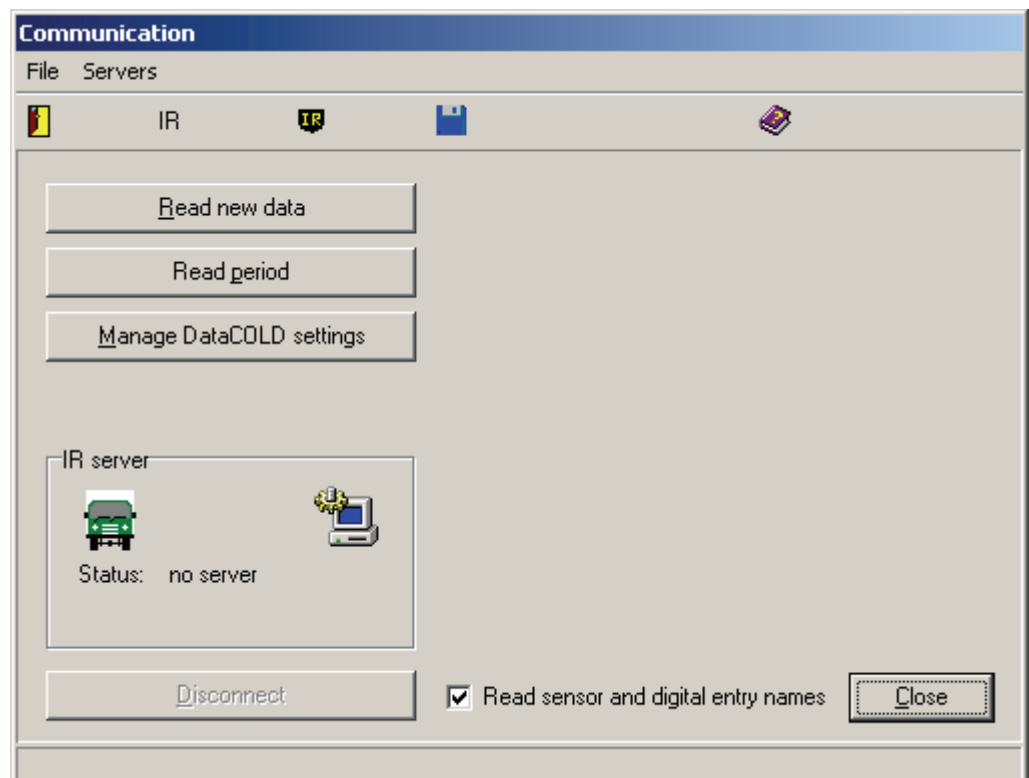
You can also import files into the database that have previously been exported or even from the Backup (\*.BMS) directory by using the *Data exchange/Export data* function.

### 1. Communication window for the DataLOG program

Select the  icon in the tool bar. The following communication window is displayed. This corresponds to use with the infrared cable (InfraCON)



**If an error message appears when you make a connection, check that the COM port is free and that the DataDECT and DataCOM programs have not been installed by mistake.**



## ***1.1. Communication window: tool bar***

Enables rapid access to all the functions available from the *File* and *Server menus*.



**Connection icons:** these icons are used to select the type of connection you wish to use to communicate with the recorders DataCOLD (infrared, GSM, DECT).

The various types of connection can be activated or deactivated in the *Tools/Server setting option* (cf. *CH. VII, 2. Configuration of applications*).



**Connection mode:** displays the type of connection in use.



**File icon:** this icon is used to import information into the database from \*.TMS export files or from backup files.

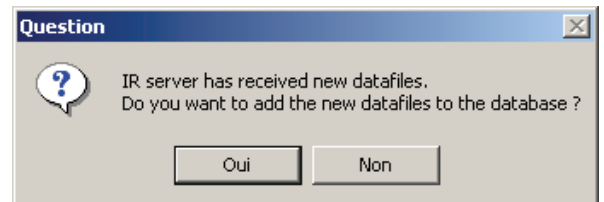
## ***1.2. Communication Window: read***

This part is used to read the data in the recorder and gives access to the DataCOLD parameter management window.

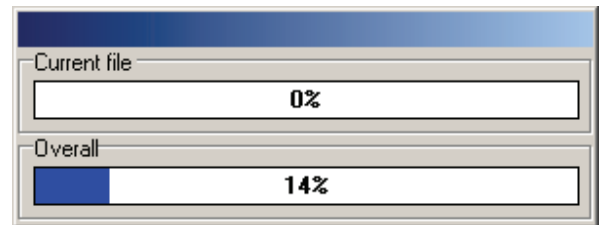
The *Read sensor and digital entry names* option (at the bottom of the window) is used to read or hide the names of the inputs from the recorder sensors while reading the data. Communication is more rapid if the input names are not read.

## 2. Operation of the infrared connection

- Check that you have selected the infrared connection. The connection mode IR must be displayed. It is also necessary to have a status: *Idle*.
- Then, select one of the suggested commands: *Read new data* or *Read period*.
- The status of the server InfraCON becomes *Searching* then *Connected* and communication commences. The display returns to *Idle* from the end of the communication.
- Finally, when communication is complete, if new data is read from the recorder, the system will ask if you wish to import the data into the database. You can either import the data immediately or choose to import it later.



If you select *Yes*, a window will show the progress of importation into the database.



If you decide to import it later, the message will appear each time the communication window of the program DataLOG is opened, or at the end of each connection.

If the data recovered relates to a new vehicle, the system will automatically add it to the database.

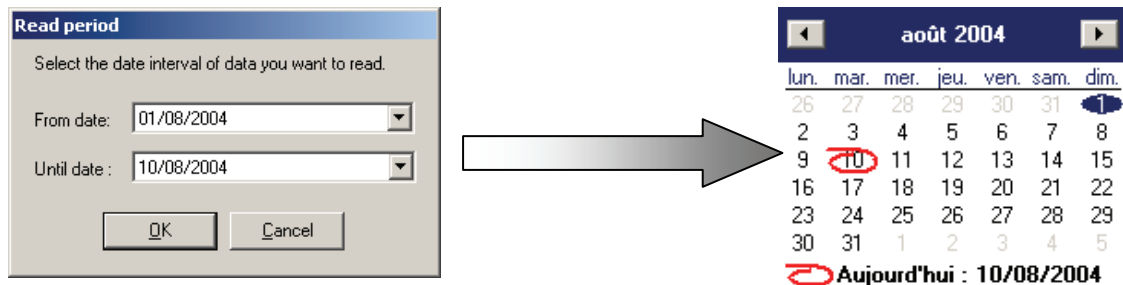
## 3. Reading new data

The function *Read new data* is used to read from the recorder only data that it has recorded since the last *Read new data command*.

This enables only data that is not already in the computer to be read, thereby reducing the communication time between the recorder and the computer.

## 4. Read period

This function is used to read a particular period from the recorder.



When you select *Read period*, a window appears in which you can specify the period you wish to read from the recorder. Here, as opposed to *Read new data*, this action in no way affects entry of the next new data readings.

## 5. Managing recorder parameters

The parameter management window is used to manage the recorder DataCOLD 500 R/T and DataCOLD 250 R/T parameters. You can read the parameters of a recorder, send them to it, and also save these parameters on the PC.

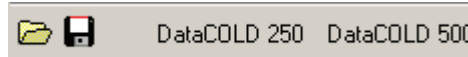


**Before reading or writing the parameters, check that you have not forgotten to enter the PINCODE.**

### 5.1. Selecting the recorder

Firstly, you have to choose between the two recorders:

- DataCOLD 250
- DataCOLD 500



Whichever recorder is selected, the right hand side of the window is reserved for configuration:

- You can read the information contained in the recorder:
  - *Read all* : Read all the parameters of the recorder.
  - *Read selection* : Read selected parameters
- You can also send new parameters to the recorder:
  - *Write change* : Write changed parameters. When parameters are changed, their cell becomes blue.
  - *Write selection* : Write selected parameters.

Then the system will ask you if you wish to save these parameters.

After selecting the recorder, you can choose between different types of parameter:

Pincode:

A vertical configuration dialog box. At the top is a 'Pincode:' field with 'xxxx' entered. Below are buttons for 'Read all', 'Read selection', 'Write Change', 'Write selection', 'Cancel action', and 'Close'. At the bottom, there is a 'Communication I' section with a progress indicator consisting of four blue bars.



If you wish to enter your own sensor name, first select: *Free text*

Return air  
 Front  
 Rear  
 Probe  
 Free text

### 5.2. The temperatures



T1 input

On

Sensor : On or Off

Return air

Sensor name

Temperature

Sensor type

T2 input

T3 input

T4 input

There are 4 sensors for DataCOLD 500 R/T recorders and 2 for DataCOLD 250 R/T recorders. For each of these sensors, you must:

- activate or deactivate it,
- name it,
- select the type of sensor, either Temperature or Relative humidity (only Temperature sensors for the DataCOLD 250 R/T recorders).

### 5.3. The digital inputs



Digital input 1

Off

Digital input : On or Off

Side door

Digital input name

Low level

Input active on : High level or Low level

Off

Alarm : On or Off

10 min

Alarm delay time

Digital input 2

Digital input 3

Digital input 4

There are 4 sensors for DataCOLD 500 R/T recorders and 1 for DataCOLD 250 R/T recorders. For each of these sensors, you must:

- activate or deactivate it,
- name it,
- indicate in which position these inputs are active,
- activate or deactivate the alarm (DataCOLD 500 R/T only),
- indicate the delay at the end of which the alarm is triggered (DataCOLD 500 R/T only)

## 5.4. The compartments Compartments



It is important to set the parameters for the compartments correctly in order to obtain correct information on the printed tickets.

Compartment 1

Compartment 2

Compartment 3

Compartment 4

Compartment 1

On

Compartment : On or Off

COMP. 1

Compartment name

Off

Alarm group

Assign

T 1  On

T 2  On

T 3  Off

T 4  Off

Alarm on

T 1  On

T 2  On

T 3  Off

T 4  Off

D 1  Off

D 2  Off

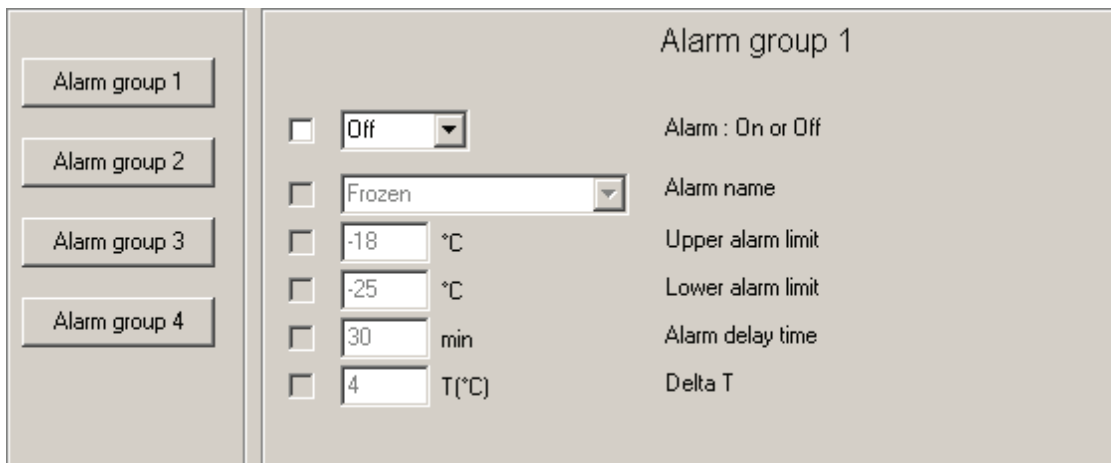
D 3  Off

D 4  Off

There are 4 compartments for DataCOLD 500 R/T recorders (none for DataCOLD 250 R/T). For each of these compartments, you must:

- activate or deactivate it,
- name it,
- indicate the type of alarm (to configure the type of alarm, see *CH III, 5. Manage the recorder parameters*),
- indicate which temperature sensors are assigned,
- assign alarms for each temperature sensor,
- assign the digital inputs.

## 5.5. Temperature alarms Temperature alarms



Alarm group	Configuration	Label
Alarm group 1	<input type="checkbox"/> Off	Alarm : On or Off
Alarm group 1	<input type="checkbox"/> Frozen	Alarm name
Alarm group 1	<input type="checkbox"/> -18 °C	Upper alarm limit
Alarm group 1	<input type="checkbox"/> -25 °C	Lower alarm limit
Alarm group 1	<input type="checkbox"/> 30 min	Alarm delay time
Alarm group 1	<input type="checkbox"/> 4 T(°C)	Delta T

There are 4 temperature alarms on the DataCOLD 500 R/T recorders (none on the DataCOLD 250 R/T). For each of these alarms, you must:

- activate or deactivate it,
- name it,
- indicate the upper and lower limits of the alarm,
- indicate the time delay after which the alarm is triggered,
- define the delta T of the alarm limits. This parameter is active only if the automatic alarm has been activated first in the *Communication tab* (cf. *CH V, 2. Operation of the DECT module*). The alarm will therefore only be triggered if the temperature exceeds the set temperature of the cooling unit by plus or minus delta T.



## 5.6. The printer Printer

<input type="checkbox"/>	15 °C	Graph upper limit
<input type="checkbox"/>	-30 °C	Graph lower limit
<input type="checkbox"/>	10 mm/h	Scale
<input type="checkbox"/>	Actual only	Values on delivery ticket
<input type="checkbox"/>	Compartment 1	Compartment to print
<input type="checkbox"/>	On	User menu
<input type="checkbox"/>	10 h	Printing last hours
<input type="checkbox"/>	00:00:00	Start time
<input type="checkbox"/>	18:00:00	Stop time (if printing by date)

The printer parameters apply to the printer of the recorder. You must:

- indicate the upper and lower limits of the graph,
- indicate the scale of the graph,
- indicate the values of temperature that will appear on the delivery ticket (DataCOLD 500 R/T only),
- select the compartment for which the ticket is to be printed (DataCOLD 500 R/T only),
- activate or deactivate the user menu which gives the right to the user of the recorder to change the printing intervals of the delivery ticket.

## 5.7. General parameters

<input type="checkbox"/>	C°	Temperature unit
<input type="checkbox"/>	dd/mm/yyyy	Date format
<input type="checkbox"/>	15 min	Sample rate
<input type="checkbox"/>	ABCDEF	Vehicle ID
<input type="checkbox"/>	Abcdef	Header text
<input type="checkbox"/>	1111	Parameter PIN code
<input type="checkbox"/>	English	Language
<input type="checkbox"/>	On	Time adjustment (summer/winter)
<input type="checkbox"/>	35	Display contrast
<input type="checkbox"/>	50	Display backlight
<input type="checkbox"/>	50	Keyboard backlight
<input type="text" value="01111974"/>		DataCOLD S/N
<input type="text" value="V2.10"/>		Firmware version

The general parameters correspond to display configurations on the recorder screen. You must:

- select the units of temperature,
- select the date format,
- indicate the measurement interval.,
- Indicate the name of the vehicle and the title of the delivery ticket,
- select the language for the recorder,
- configure the recorder screen parameters.




The serial number *DataCOLD S/N* and version firmware (software *DataCOLD*) of the last recorder with which you read the parameters are displayed greyed out at the bottom of the screen.



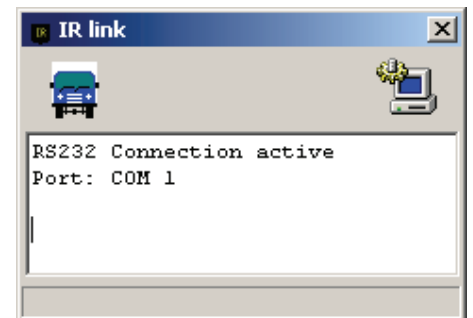
## 6. Using the IR cable

When you set up a connection between the recorder and the computer via the infrared cable Carrier, check that it is installed on the recorder as shown below. When communicating with the recorder, a connection indicator is displayed in the top right hand corner of the recorder screen.

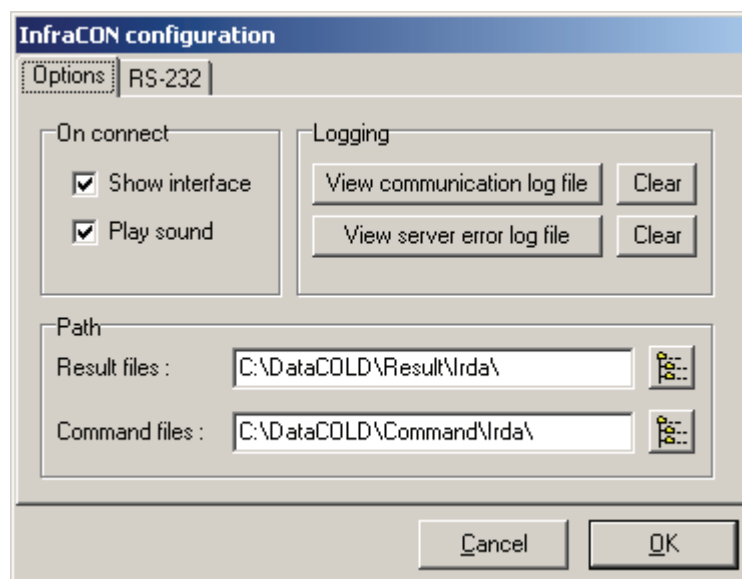


In addition, an Infrared connection icon  in the task bar beside the clock changes state. There is one state for seeking the connection  and another for establishment of a connection with the recorder and data recovery .

To view the connection window and check the progress of the communication, right click on the Infrared icon in the task bar beside the clock and select *Connections*. The connection window IR link will be displayed.



If this window does not appear, right click again on the icon and select *Configure*. Then, tick box *Show interface* in the tab *Options*. In this way, you can make the connection window appear by selecting *Connections*.





## CH IV

## THE CONNECTION GSM

This chapter explains how the GSM connection works. Communication GSM is used, wherever the vehicles are located, to transfer all their data, set their parameters or request their status.

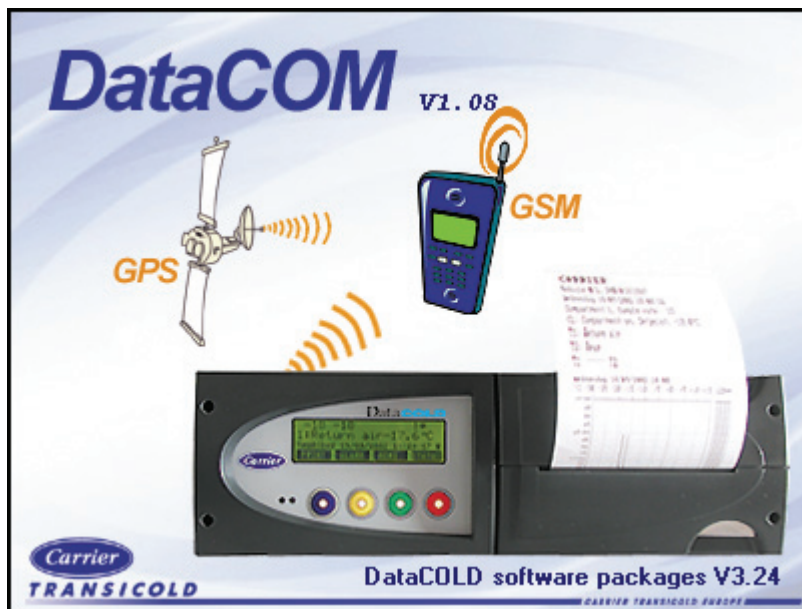
In addition, with the GPS, you can locate them in real time. Communication GSM/GPS is only available on the DataCOLD 500 R/T.

### ***1. The components required***

To communicate with the DataCOLD 500 R/T, you must use the GSM modem supplied by Carrier. This is connected to the computer via the serial communication port. You must also have the SIM data cards necessary for communication between the recorders and the computer (one for the base and one for each recorder).

The programs necessary for communication GSM are as follows:

- DataLOG, for managing the recorders and the communication
- DataMON, for supervising the fleet
- DataCOM, for managing the communication GSM
- Microsoft® MapPoint® for cartographic reports if the recorders are fitted with GPS (not supplied).



## 2. Operation of the GSM

### 2.1. Configuring vehicles fitted with GSM

In the main window of the DataLOG program, select option *Add vehicle* or *Modify vehicle* (see *CH II, 4. Vehicle management*). For the recorders fitted with GSM, you must enter its GSM number in the database and type the GSM number into the corresponding field and confirm with the *Add* or *Modify* button.



By default, the DataCOM program is launched when starting Windows.

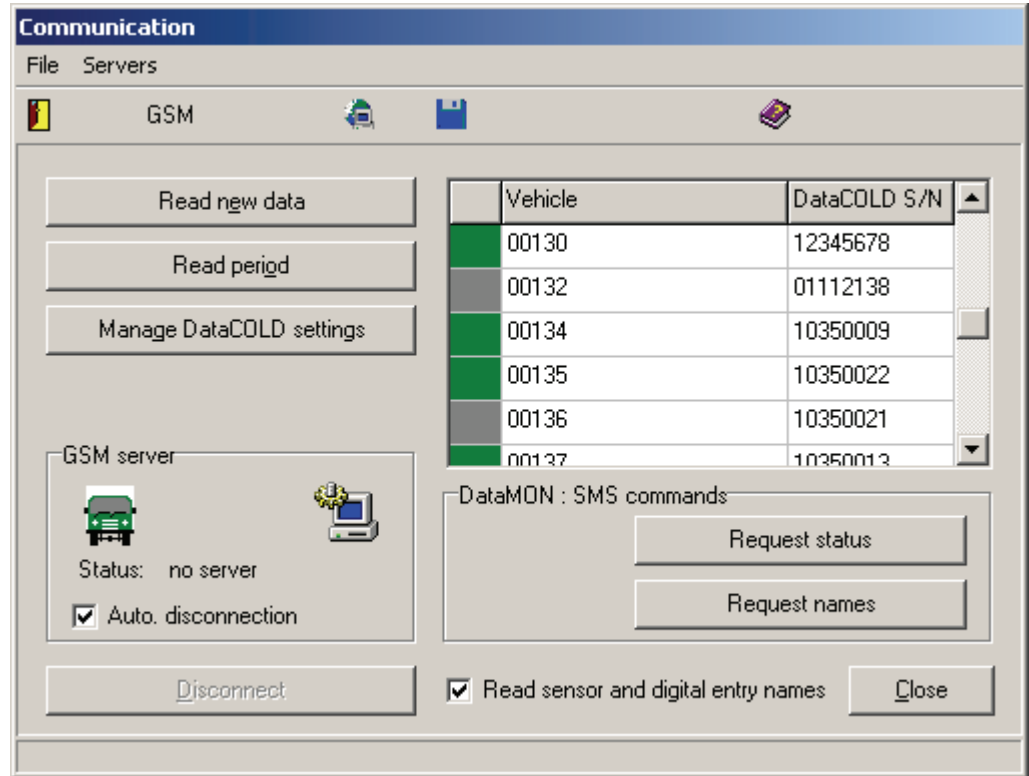
Vehicle	Description	Depot
00126	Carrier Transicold	UK
00127	Carrier Transicold	France
00128	Carrier Transicold	UK
00129	Carrier Transicold	Spain
00130	Carrier Transicold	Denmark
00132	Carrier Transicold	France
00134	Carrier Transicold	Germany
00135	Carrier Transicold	Italy
00136	Carrier Transicold	Danemark
00137	Carrier Transicold	France
00139	Carrier Transicold	Germany
00140	Carrier Transicold	Italy
EUROSCAN		

## 2.2. Communication with vehicles

a) Access the *Communication* window of the DataLOG program (see *CH III, 1. Communication window of the DataLOG*) program.



By right clicking with the mouse on the vehicles part, you can select or deselect all vehicles fitted with the GSM (green box).

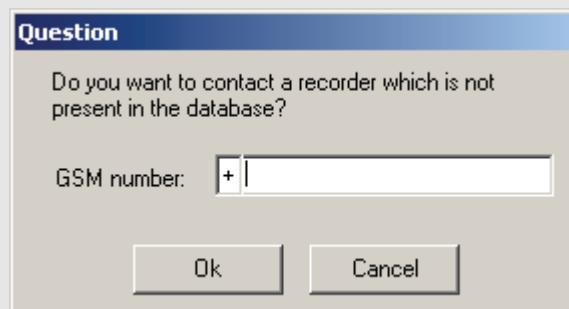


Vehicles with a telephone number GSM are marked with a green square. Grey squares indicate standard vehicles.

b) Select the vehicle(s) with a DataCOLD GSM (green box) for which you wish to read data or set parameters. A telephone is displayed in the green box.

Vehicle	DataCOLD S/N
00130	12345678
00132	01112138
00134	10350009
00135	10350022
00136	10350021
00137	10350013

If you do not select a vehicle in the *Communication* window before selecting a command, the system will request you to enter the number GSM of the recorder to be contacted.

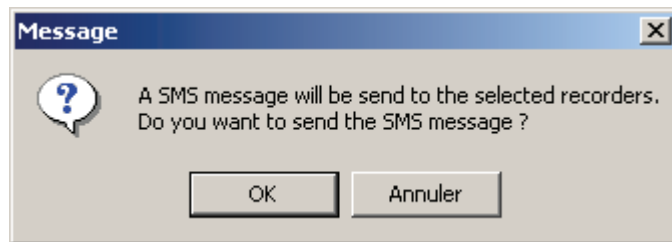




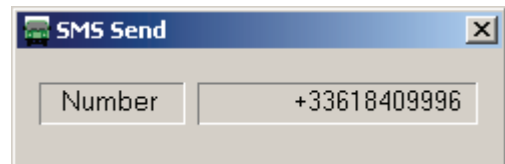
### 2.3. Request names (first connection)

This command is used to collect all the names (compartments, sensors, probes, etc.) of all the vehicles selected for display in the DataMON program.

After selecting the vehicles to be contacted, select the command *Request names* in the *DataMON* part: *SMS commands*. The system asks you if you wish to send a SMS to all the recorders selected. Confirm with the *OK* button.



Then, a window DataCOM informs you of the number GSM contacted.



### 2.4. Status request

Select the vehicles whose status you wish to know and confirm with the *Request status* button. As with request names, the system requests confirmation that SMS has been sent to the selected vehicle(s) and displays a window informing you of the numberGSM dialled.

After receiving the data, the DataMON window displays the status(es).



**The DataCOLD can be configured to send a status regularly and automatically (see Technical manual DataCOLD 500 R/T).**



Véhicule	Compartment	Premier contact	Dernier contact	T1	T2	T3	T4	D1	D2	D3	D4	SP	Df	St	Max	Min
DataCOLD_1	Comp 1	26/07/2004 15:57:32	26/07/2004 16:15:28	21.9	22.3			On	On		Off	-5.0	Off	On		
	Comp 2					22.4	22.1					-25.0	Off	On		

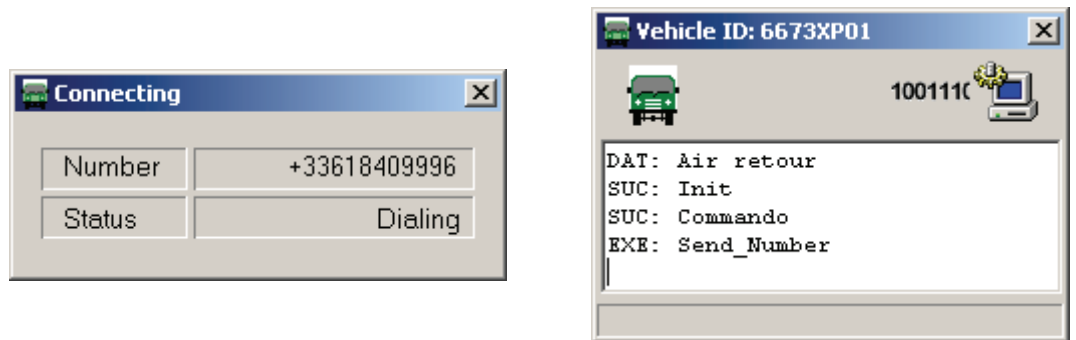
When a status request has been made, the first cell in the line changes to green for a defined time, then changes to yellow before turning red (see *CH VI, 2. Alarms*).

## 2.5. Read new data/Read period.

To read data from a recorder fitted with GSM., select the vehicles whose data you wish to read and confirm with the *Read new data* or *Read period* button.

The following will then be displayed:

- the window giving the number GSM of the vehicle called up (the DataCOM icon in the task bar changes state )
- the connection state window and the DataCOM icon change to .



The management of data received by the computer is the same as for connection with the infrared cable (see *CH II, 4. Data management*).

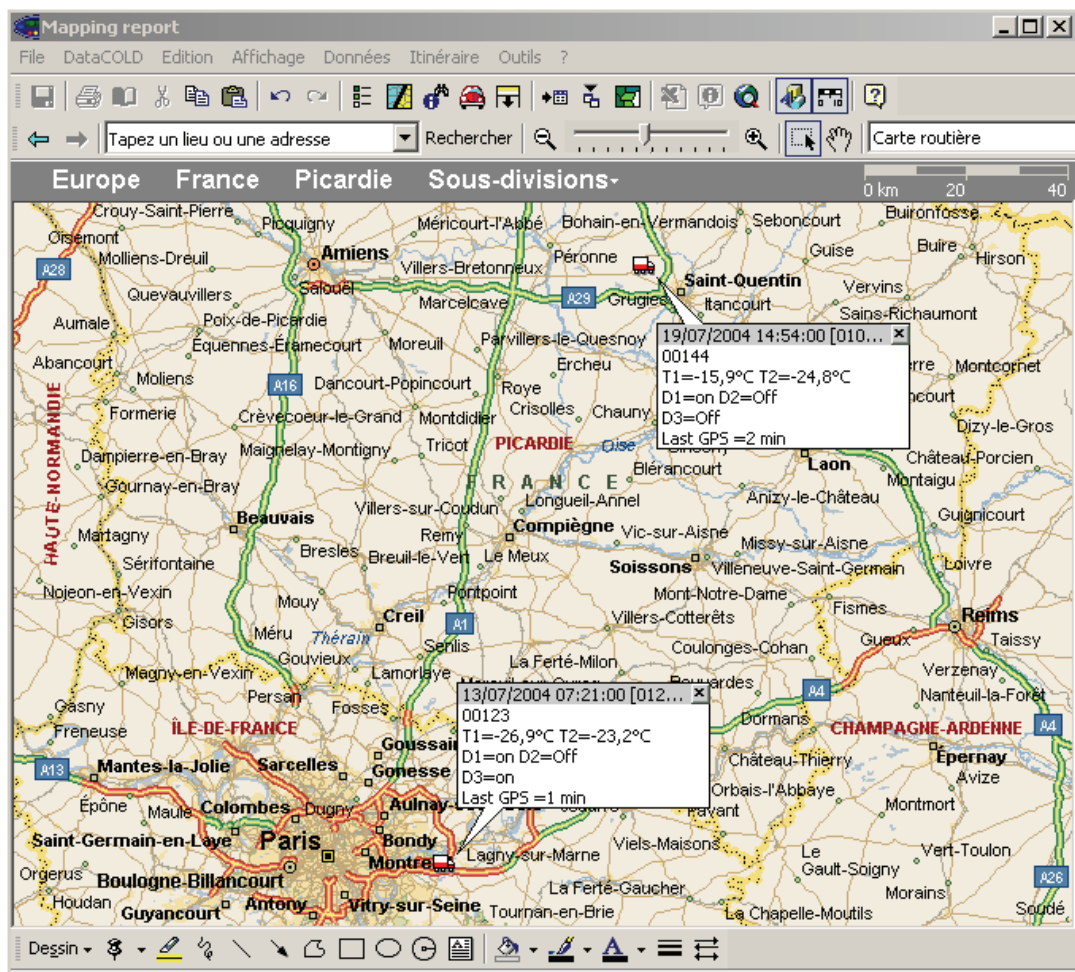
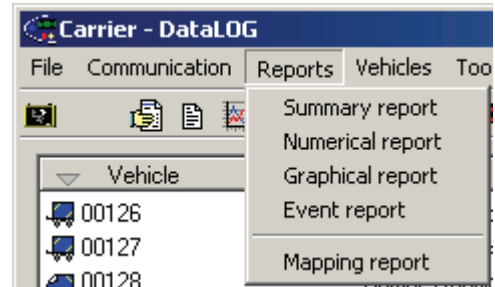
At the end of the connection:

- either the recorder contacted is already known in the database and the information is added to that already existing;
- or, it is a new vehicle and the system adds this module to the database. A new icon appears in the main window of the DataLOG confirming the creation of a new recorder in the database.

### 3. The cartographic report

#### 3.1. The display

The cartographic report is only accessible if the Microsoft® MapPoint® program is installed in the computer. It is accessed by selecting *Mapping report* in the *Reports* option in the menu bar of the DataLOG program.



The positions of vehicles fitted with GPS are displayed on the map.

In addition, a window displays the following characteristics:

- the date and time of the last reading and the serial number of the DataCOLD
- the name of the vehicle
- the temperature and/or relative humidity
- the state of activation of the digital inputs
- the age of the last data GPS read by the recorder.



### 3.2. The functions of DataCOLD

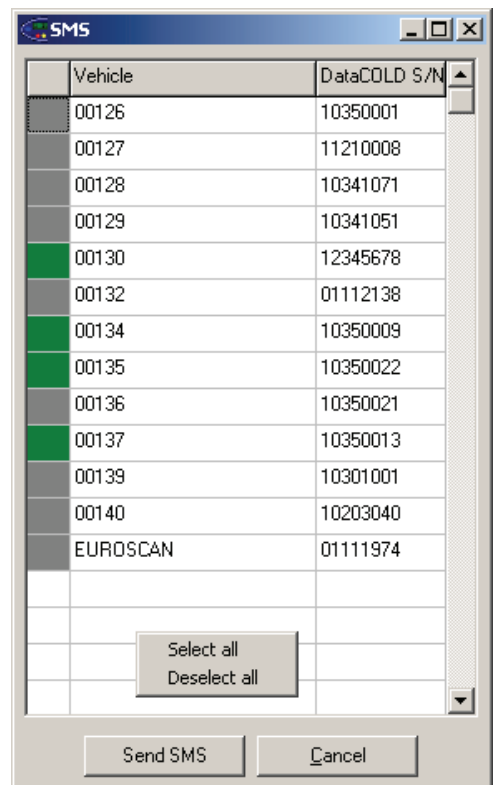
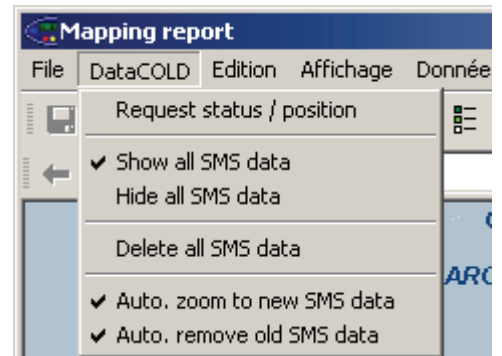
In the menu bar of the MapPoint® window, select the *DataCOLD* option (for all other functions, see the MapPoint®) program help file.



By right clicking on the window, you can select or deselect all the vehicles before sending your SMS.

The various tools available are:

- *Request status / position*: A list of all the recorders is displayed. Then select the vehicles whose status you wish to know, if the DataCOLD is fitted with the GPS, you can find their positions.
- *Show/Hide all data SMS*: These commands are used to display or hide the position of each DataCOLD.
- *Delete all data SMS*: By selecting this command, you will delete all vehicles from the cartographic report.
- *Auto. Zoom, to new SMS data*: The program zooms automatically to the last positions of the vehicles.
- *Auto. remove old data*: New GSM data for a vehicle will overwrite existing data.





# CH V

# THE CONNECTION DECT

This chapter explains how DECT radio frequency communication works.

Within a limited range, DECT is capable of transferring data from the DataCOLD 500 R/T to the office computer at radio frequency. This wireless connection operates within a radius of about 300 meters from your base DECT.

## ***1. The components required***

The programs necessary for communication DECT are as follows:

- DataLOG, for managing recorders, communication and reports
- DataMON, for supervising the fleet
- DataDECT, for managing the communication DECT



## 2. Operation of the DECT

Communication DECT operates differently from the GSM. With the radio frequency connection DECT, the computer cannot contact the recorders, it is the recorders that create the communication with the computer via the base radio.

### 2.1. Status transmission



The period for the transmission of status (*connection interval*) is set in each recorder.

A connection is made at regular intervals of time: The *Connection Interval*. At each *Connection interval* the recorder attempts to contact the base DECT and send the vehicle status. This status is displayed in the main window of the DataMON program after a few seconds for refreshment.

Vehicle ID	Compartment	First contact	Last contact	T1	T2
6673XP01	Compt 1	13/07/2004 11:31:00	13/07/2004 11:52:00	-19.2	-11.0


Even if the vehicle is not within the radius of reception of the base DECT, at each *Connection interval* the recorder attempts to connect with the computer.

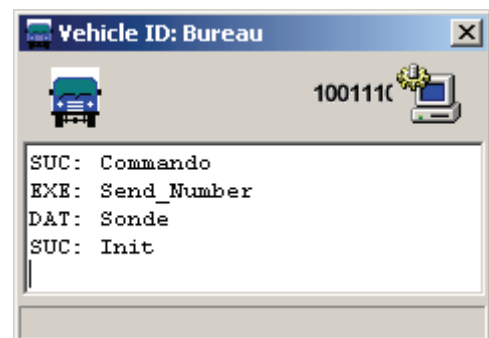
### 2.2. Data transmission



The main DataMON window is refreshed automatically every 30 seconds.

As for status, data transmission is automatic and is initiated by the recorder. The information is transmitted after a previously defined number of *Connection intervals* (see Technical Support) or when the vehicle comes within range of the base DECT.

During a connection, the icon in the task bar beside the clock changes state and flashes red . The connection window is also displayed



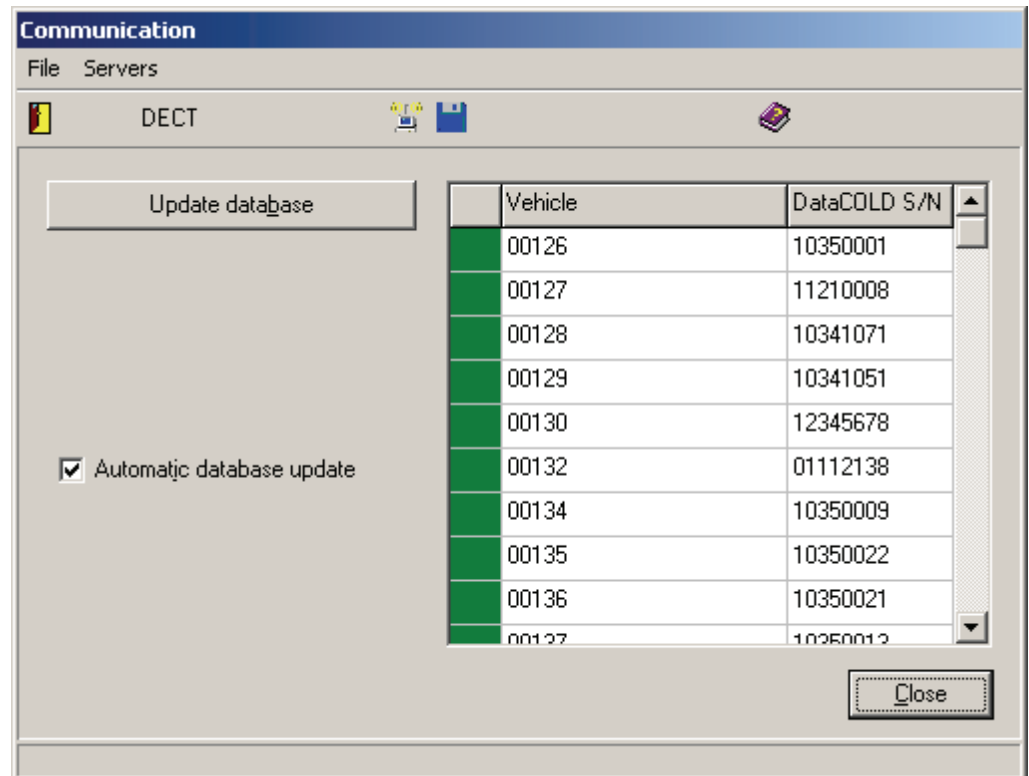
### 2.3. Alarms

When the vehicle is out of range of the base DECT and a temperature alarm is triggered, it will not be transmitted to the computer until the next time the DataCOLD is near the base DECT. It can be notified to you by email, SMS or by a display in the DataMON (see *CH VI, 2. Alarms*).

## 2.4. Updating the database

On receipt of data, its importation into the database can be automatic. If this is not the case, you can set automatic updating:

- a) access the *Communication* window of the DataLOGprogram (see *CH III, 1. Communication Window of the DataLOG*) program.



- b) Tick the option Automatic database update. Data will then be added to the database automatically after each connection between the recorder and the computer.

Action Update database is used to import into the database the information supplied by the recorder. This action is only effective if the option Automatic database update has not been activated.

- c) The management of data received by the computer is the same as for connection with the infrared cable (see CH II, 4. Data management).





This section of the manual describes the operation of the DataMON program. This program is used to monitor the vehicles during DECT and GSM connections.

## 1. The main window of the DataMON program

Shown below, it consists of a menu bar and a part reserved for the list of vehicles.

Carrier - DataMON												
File Alarms Recipients Options View												
	Vehicle ID	Compartment	First contact	Last contact	T1	T2	Max.	Min.	Alarm	Delay	S. rate	
		Reprise Air	26/06/2003 13:14:26	26/06/2003 13:14:26			6	-1	Froid positif	30	10	
		Soufflage										
	1163ZF54	Reprise Air	26/06/2003 13:13:18	26/06/2003 13:13:18	23,3		6	-1	Froid positif	30	10	
		Soufflage				22,3						
	1126ZF54	Reprise Air	26/06/2003 13:14:16	26/06/2003 13:14:16	24,3		6	-1	Froid positif	30	10	
		Soufflage				22,7						
	1115ZF54	Reprise Air	26/06/2003 13:13:38	26/06/2003 13:13:38	21,6		6	-1	Froid positif	30	10	
		Soufflage				21,1						
	1123ZF54	Reprise Air	26/06/2003 13:13:52	26/06/2003 13:13:52	19,5		6	-1	Froid positif	30	10	
		Soufflage				19,8						
	1157ZF54	Reprise Air	26/06/2003 13:14:04	26/06/2003 13:14:04	24,8		6	-1	Froid positif	30	10	
		Soufflage				23,7						
	1155ZF54	Reprise Air	26/06/2003 13:11:48	26/06/2003 13:11:48	24,3		6	-1	Froid positif	30	10	
		Soufflage				23,2						
	1130ZF54	Reprise Air	26/06/2003 13:10:40	26/06/2003 13:10:40	21,5		6	-1	Froid positif	30	10	
		Soufflage				20,6						
	1242ZF54	Reprise Air	26/06/2003 13:09:10	26/06/2003 13:09:10	24,3		6	-1	Froid positif	30	10	
		Soufflage				23,1						
	1147ZF54	Reprise Air	26/06/2003 13:04:20	26/06/2003 13:04:20	25,9		6	-1	Froid positif	30	10	
		Soufflage				25,3						
	1127ZF54	Reprise Air	26/06/2003 13:12:44	26/06/2003 13:12:44	23,0		6	-1	Froid positif	30	10	
		Soufflage				22,1						

## 1.1. The vehicle part

This main part of the screen displays all the vehicles whose recorders have been in contact with the computer via the GSM or DECT communication links.

This window shows (from left to right and by default):

- the state of inactivity (colour). You can therefore see for how long the recorder has not been in contact with the computer.
- the name of the compartment
- the name of the vehicle
- the date of the first and last contact between the recorder and its base
- the values of the temperature probes
- the state of the digital sensors
- the values of the set points (SP), activation or deactivation of defrosting (Df) and the status of the compartments (St)
- the maximum and minimum values of the active alarm
- the name of the active alarm

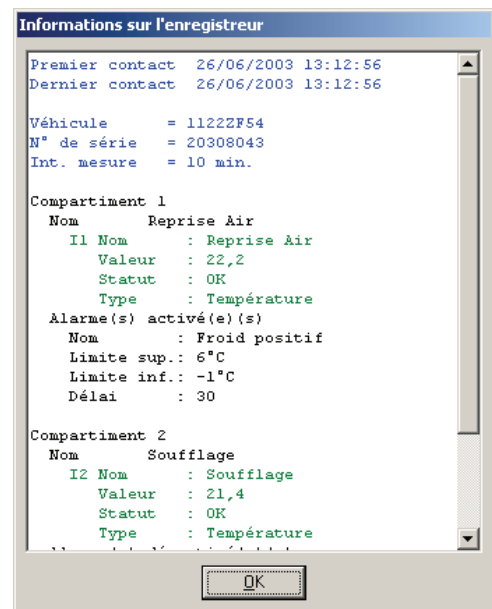
By clicking in the window with the right mouse button you can add:

- the serial number of the vehicle,
- the time delay of the alarm,
- the measurement interval.

## 1.2. The summary sheet

By double clicking on a line, you can obtain a summary of information on the vehicle corresponding to the line:

- the characteristics of the vehicle in blue (first and last contact with the computer, name and serial number, measurement interval),
- the characteristics of each compartment in green,
- the characteristics of the alarms in black.



The window of the DataMON program is refreshed every 30 seconds.

## 2. Alarms



In order to be notified of any alarms, you can set the alert values in DataMON.

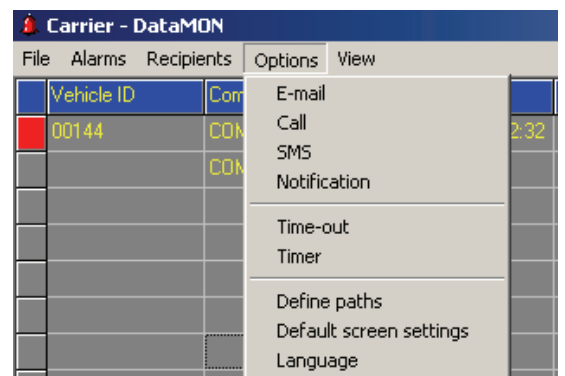
An alert is triggered in the event of a temperature alarm, or an alarm for the cooling unit.

Three alert modes are possible: a voice call, a SMS and email.

To be notified of all alarms, DataMON must remain active.

### 2.1. Configuring the alerts

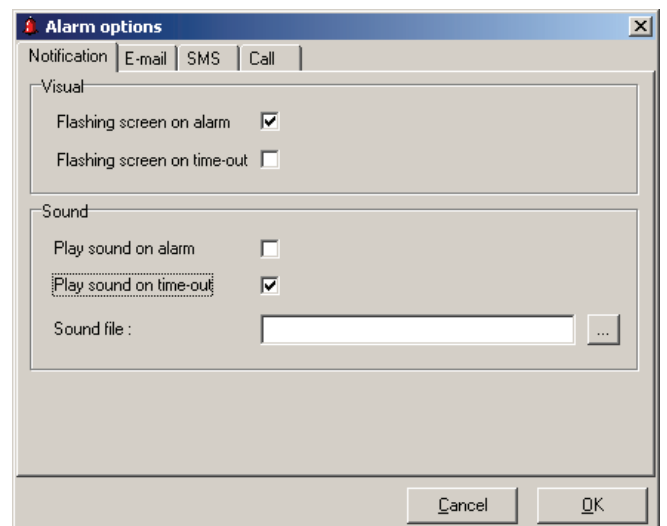
To configure the alerts, select the *Options* tool in the menu bar.



#### 2.1.1. Notification

This tab enables you to be warned of alerts by the computer. It consists of a visual alarm part that causes the screen to flash on activation of an alarm or prolonged inactivity of a recorder.

The second part of this notification configures the audible alarm of the computer.



### 2.1.2. Emails



**This function is used to send emails via a SMTP server only.**

This tab enables you to be warned of alerts by emails directly sent to your email in box. It consists of a first part for selecting the email address, the SMTP server and the name of the user.

The second part of the window concerns the addressees. You can enter their names and email addresses and thereby produce a list of persons to be notified.

By selecting *Texts*, you can enter the text that addressees will receive if an alarm is activated or in the event of excessively prolonged inactivity of a recorder.

### 2.1.3. Voice calls



**This function requires a voice modem.**

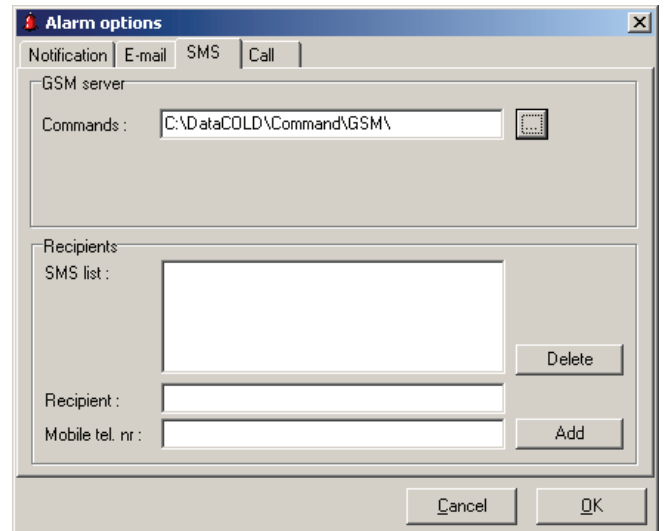
This tab is used to be warned of alerts by prerecorded voice calls sent directly to your telephone (fixed or mobile). It contains a first part for the choice of modem and prerecorded message. You can also enter a telephone number to check that it is operating correctly.

The second part is dedicated to entering the list of addressees for voice alerts.

### 2.1.4. The SMS

This tab is used to be warned of alerts by prerecorded SMS directly sent to your mobile telephone. It is used to configure the communication characteristics of the SMS.

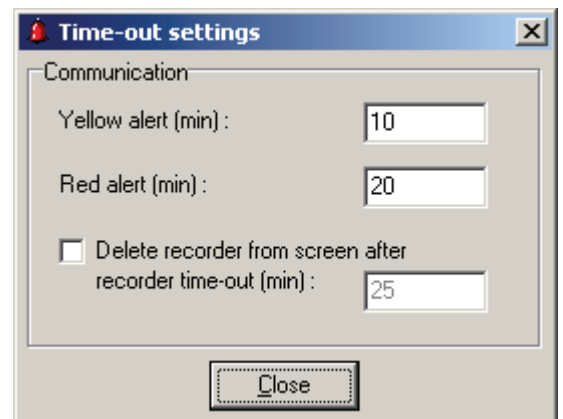
In the first part you can select the directory in which the commands SMS are placed. The DataMON program must be active and the GSM Carrier modem must be installed in the computer.



The second part is again reserved for the list of persons to be warned when an alarm is triggered or for inactivity of a recorder.

### 2.1.5. Periods of inactivity

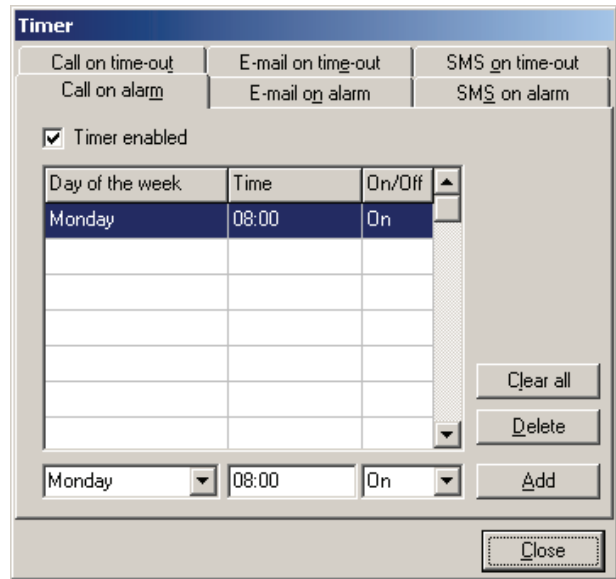
This tab is used to specify the level of alert for a period of inactivity. Two levels of alert are available: yellow and red (first column of the table in the main window of the DataMON program).



### 2.1.6. The program timer

Here you can set a timer which activates or deactivates voice calls, the sending of emails or SMS in advance when triggering alarms. This scheduling is carried out according to the day of the week and the time at which the timer is to be activated.

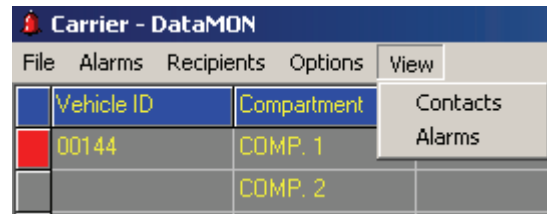
Next, all the timer settings must be entered for each type of alert (Voice call, email, SMS).



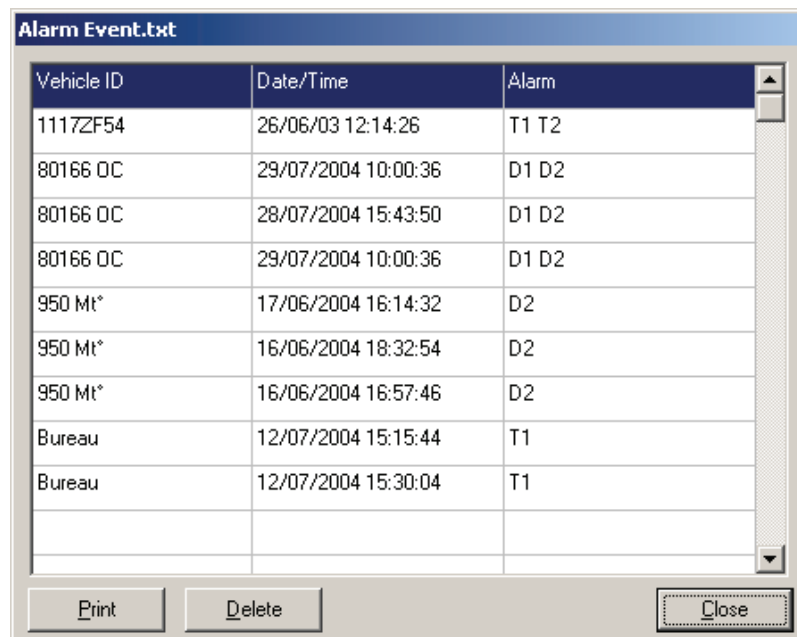
### 2.1.7. Parameters and Log files

The parameters are accessible from the *Options* menu, they are used to set the language, the Results and Log file paths and to return to the default parameters.

- The files LOG, are located by default in the C:/DataCOLD directory and are called ArrivalDeparture.txt and AlarmEvent.txt.



- AlarmEvent.txt: Date and time of each alarm for each vehicle.



- ArrivalDeparture.txt: Date and time of the first and last contact, name of the vehicle connected.

Véhicule	Premier contact	Dernier contact
00144	12/08/2004 09:22:32	12/08/2004 09:22:32
00144	12/08/2004 09:06:54	12/08/2004 09:22:32
00144	11/08/2004 12:48:22	11/08/2004 17:08:02
00144	11/08/2004 09:54:06	11/08/2004 12:26:56
1122ZF54	26/06/2003 13:12:56	26/06/2003 13:12:56
4921PG33	18/06/2004 14:51:48	18/06/2004 14:51:48
4921PG33	18/06/2004 14:51:48	18/06/2004 14:51:48
526 RR 33	16/06/2004 16:34:52	16/06/2004 16:34:52
6673XP01	29/07/2004 14:56:26	29/07/2004 15:29:02
6673XP01	29/07/2004 11:14:36	29/07/2004 11:33:00
6673XP01	16/07/2004 15:15:52	16/07/2004 15:36:32

These two types of file are visible by selecting the *View* tool from the menu bar of the DataMON program.

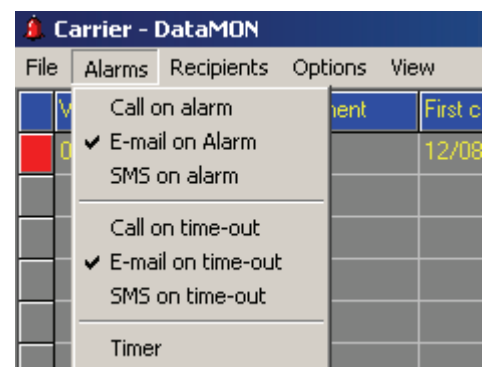
## 2.2. Activation of alerts

The alarms can be activated or deactivated by selecting the *Alarms* option in the menu bar. In the event of an alarm, you can be warned:

- by a voice call,
- by a SMS,
- by email.

In the event of inactivity of a recorder for a specified time, an alarm can be triggered to alert you. These alerts can be configured by selecting *Options* (see *CH VI, 2. Alarms*) in the menu bar

The various alerts can be activated individually but can also be configured using a program timer. This timer is configured by selecting the *Options/Timer* tool from the menu bar (see *CH VI, 2. Alarms*).





### 2.3. Addressees

The addressees are all the persons who are to be warned via their mobile telephone or email inbox.

You must enter all potential addressees to be alerted in the *Option* tool (see *CH VI, 2. The alarms*) in the menu bar.

All the addressees entered via the various tabs (Email, SMS, voice call) are recorded in the same database.

You must select the addressees for each type of alert (Voice call, SMS, email).

In the DataMON menu bar, select *Recipients*. The following window appears:



**1. Operation**



The server InfraCON is installed automatically when you install the DataLOG program.

As previously described, the software suite is composed of several applications:

- “User” applications: DataLOG, DataMON
- Server applications: DataDECT, DataCOM, InfraCON

A server application is used depending on the type of communication selected:

- DataDECT for the DECT radio frequency
- DataCOM for the GSM connection
- InfraCON for connection with the infrared cable



The server InfraCON starts automatically when you launch infrared communication.

The role of these applications is to communicate with the recorders. The information is transmitted between the “User” and server applications via 2 directories:

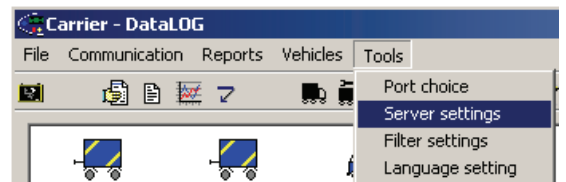
- The *Command* directory for commands to be sent to the recorder
- The *Result* directory for data coming from the recorder

The 2 directories are generally located on the computer hard disk but may also be located on a file server in order to share the data between several users.

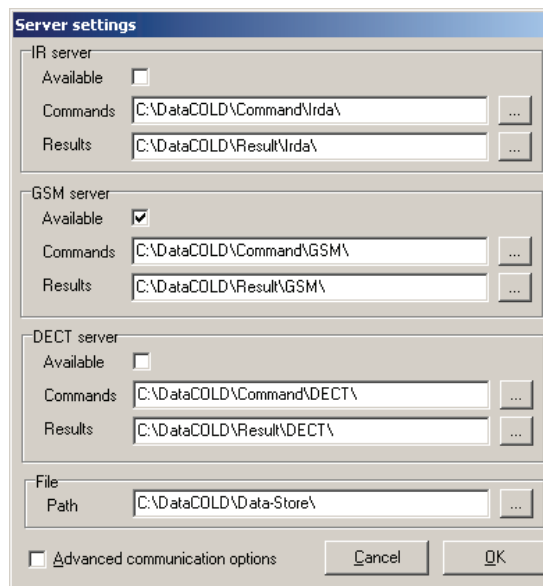
**2. Configuration of applications**

**2.1. DataLOG**

a) In the menu bar DataLOG, select *Tools/Server settings*. The following window appears:

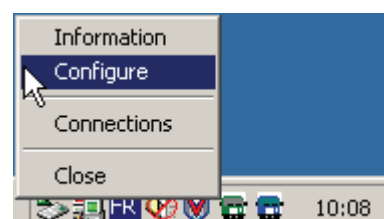


b) Enter the access path for each type of server used (IR, GSM or DECT).

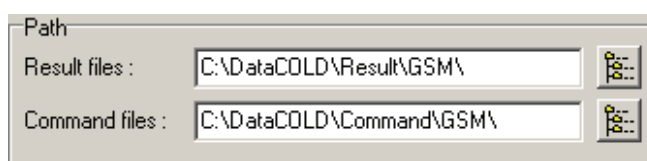


## 2.2. Server application (InfraCON, DataCOM, DataDECT)

a) Right click on the icon for the server application used in the task bar and select *Configure*.

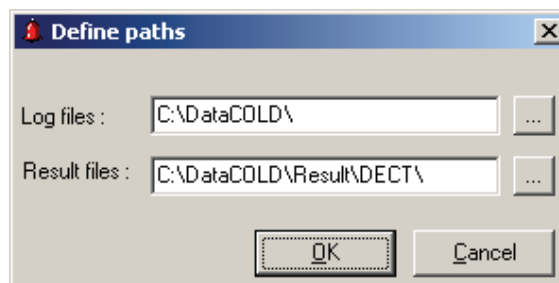


b) Then select the file access paths *Command files* and *Result files* which must be the same as those selected previously in DataLOG.



## 2.3. DataMON

In the DataMON program, you must also select the same file access path *Results* in order to be able to display the data supplied by the recorders. For that, select *Options/Define paths* in the menu bar in the main window.





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