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1. INTRODUCTION

CoachView has been exclusively developed for SENSY COACH-II electronics. COACH-II is a specific datalogger, dedicated to hoisting equipment. It is an "add-on" to the load limitation system.

If your hoisting system is equipped with our load limitation devices, COACH-II has to be connected to the analogical output (0-10V or 4-20mA) of the load limiter, but it can also use analogical output from any other device providing the applied load information (PLC, ...).

CoachView main functions are:

- Creation and management of configuration files for COACH-II (capacity, set points, alarms).
- Analysis of the recordings performed by COACH-II.

Remark: File exchanges between COACH-II and CoachView are exclusively done by means of USB stick FAT32 formatted under Windows.

2. SOFTWARE DOWNLOAD

CoachView can either be installed via CD Rom or internet download. CD Rom is provided by SENSY upon request. URL for download: http://www.sensy.net/ressources/

In order to guarantee having the latest software update, SENSY recommends internet download. This method ensures that each time you will start CoachView, the software will be automatically updated if a new version is available (as soon as the PC is connected to internet).

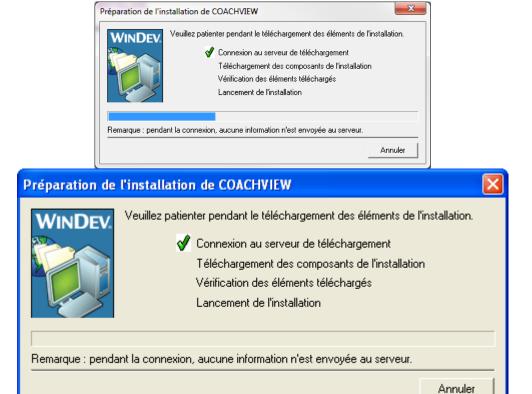
Remark: if you are facing issues during the first installation, please disable your anti-virus and firewall.

2.1. Internet download





Install wizard and install preparation download will start.



Install will automatically start.

2.2. CD Rom installation

Place CD Rom in the tray, open it with file explorer and click on "Install.exe" file.

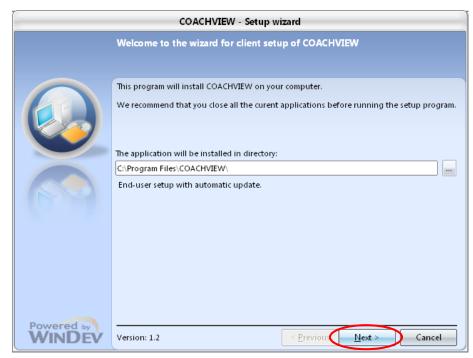
3. SOFTWARE INSTALLATION

In both cases, the install wizard starts and guides you through following steps:



Choose installation language and follow instructions.

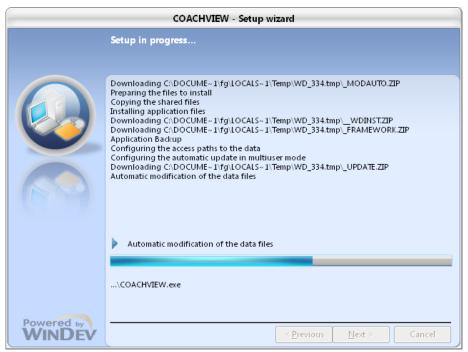










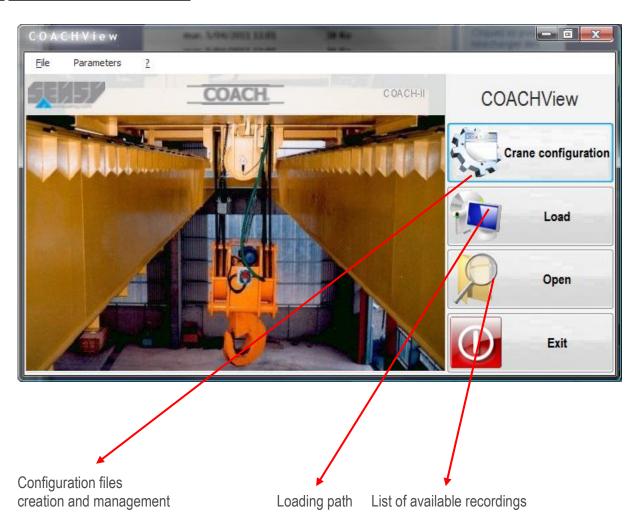








4. SOFTWARE - MAIN SCREEN



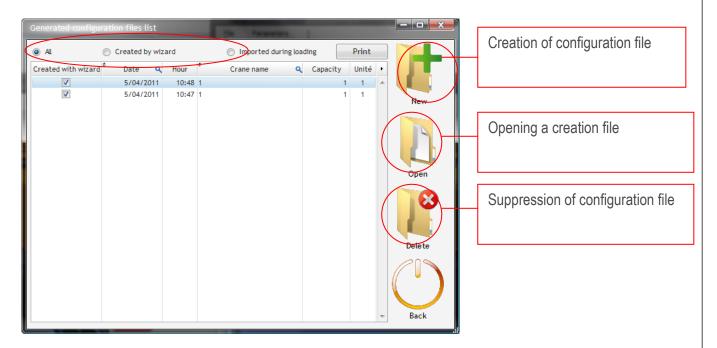
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5. CONFIGURATION FILES MANAGEMENT

This screen shows all generated crane configurations and the ones memorized during data's Download (when COACH-II pre calibrated by SENSY).

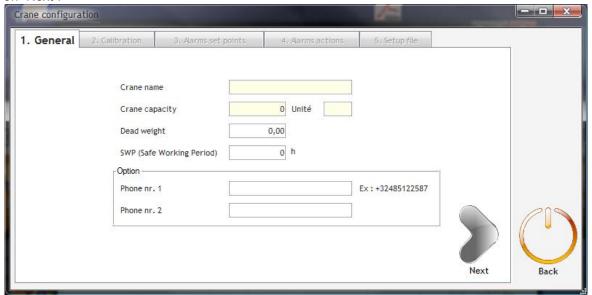
For customers with extended crane park equipped with COACH-II, search filters are available here:



5.1. Configuration - File creation wizard

5.1.1. Button « New » > General page

Following fields are mandatory: Crane name, capacity, dead weight (can be 0) and Safe Working Period (SWP). Phone numbers fields are only applicable when GSM option has been purchased. Confirm setting by click on "Next".



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5.1.2. Calibration page

This page is where you select the type of input signal and the corresponding loads.

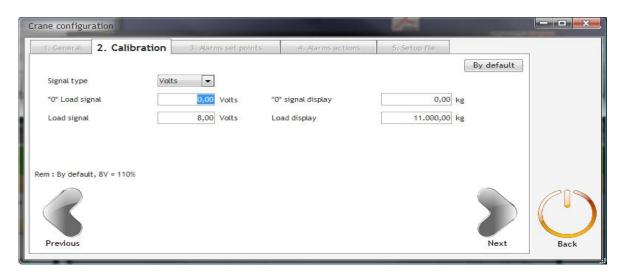
Select input signal (V or mA).

Input corresponding load values for related input signals

Default settings example: 0 V = 0 Kg = 0% 8 V = 11100 Kg = 110%For 4-20mA input: 4mA = 0 kg = 0% 16.8mA = 11000 kg = 110%

These default values are automatically obtainable by a click on "By default" button.

You could imagine setting 20mA for 300% for recording higher overloads



Attention: check COACH-II diagram for appropriate wiring!

5.1.3. Alarms set points page

B3 set point has a configurable counter, which determines how many times this value has to be crossed within one hour to trip this alarm.

B4 alarm is the average overload set point. This value is used for memorizing the hour/hour overload crossings.

B5 is the ultimate overload level. The first time this value is crossed, determined action will be generated.

Temperature alarms and hysteresis are also configurable.

Configurable SWP set point, determining what remaining time will trip SWP alarm.

Example:

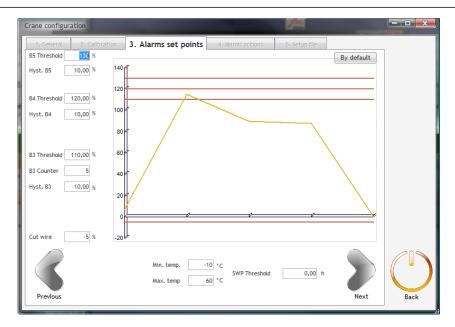
SWP is 10000 hours.

500 hours is set as SWP set point.

When 9500 operation hours will be crossed (500 hours remaining time), SWP alarm will trip.

As SWP is taking the carried loads into account in its calculation, actual remaining time will be considered for the maintenance planning, instead of "arbitrary" periodic maintenance.

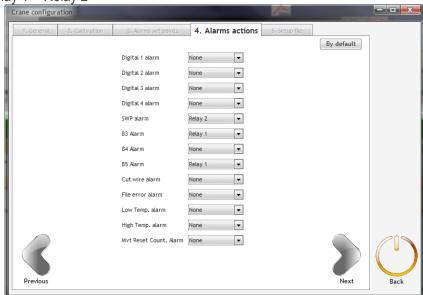




5.1.4. Alarms actions page

For each alarm, you will be required configuring an action. Following actions are available:

- None
- Relay 1
- SMS
- Relay 1 + SMS
- Relay 2
- Relay 1 + Relay 2
- Relay 2 + SMS
- SMS + Relay 1 + Relay 2





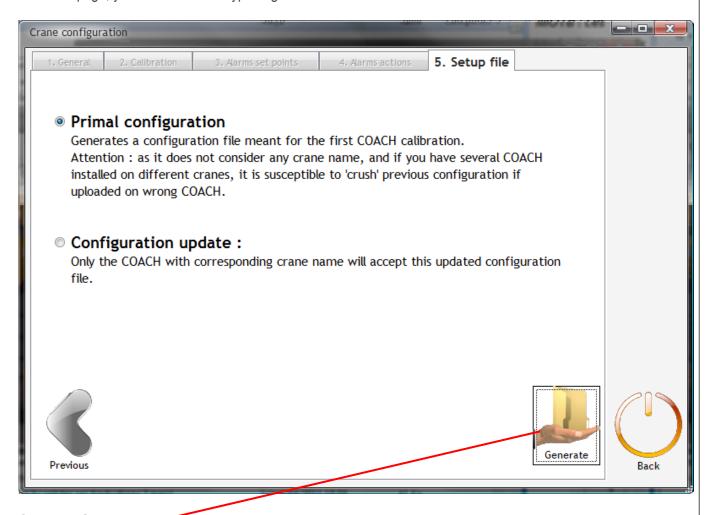
Remark: 2 types of alarms exist, automatically or manually solved.

When automatically solved alarm trips, the related action occurs but as soon as the alarm disappears, the related action is automatically canceled.

Alarm with manual solving will initiate the programmed action, but when the alarm disappears, the related action remains and must be manually reset through the "Alarm reset" button.

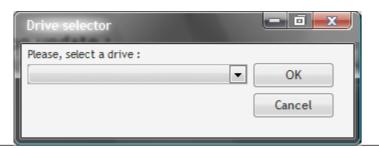
5.1.5. Generating a configuration file

From this page, you will choose the type of generation.



Click on « Generate » 4

A selection box will appear – select the USB stick meant for COACH-II Uploads and downloads.





When operation successfully completed, you will be able to print the calibration sheet.

Remark: the configuration is saved on: Chosen drive (USB stick)\DATA\UPLOAD\"ALL" or "Crane name"

6. MEASUREMENT ANALYSIS

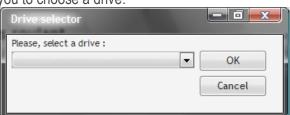
The COACHView analysis tools can be accessed using the button "Load" and "Open". You must use the "Load" button when you want to analyze data that you have not saved. The "Open" button is used to select an analysis for loading that you have already saved.

Note: to load COACH data from a USB stick, please refer to the COACH manual. Note however that the data can be found in text format in the following subdirectory structure: 'DATA\DOWNLOAD\ "Name of gantry + Date + time" '



6.1. Loading the data

The program starts by asking you to choose a drive.

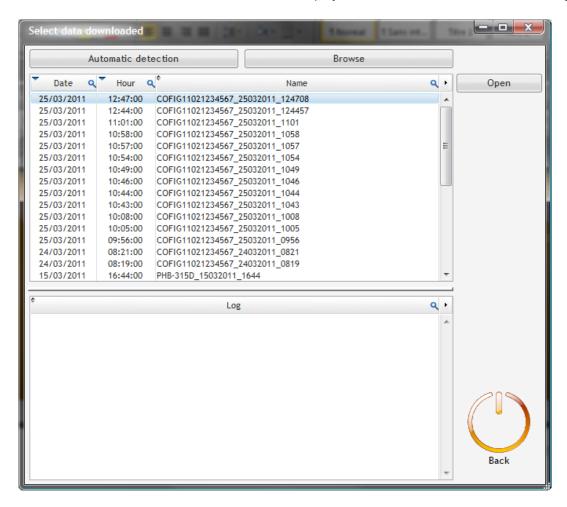


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Choose the USB stick drive and click on "OK".

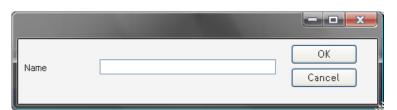
COACHView will scan the data on the drive selected and display all the loads available, like the following:



All you have to do then is choose the load you require and click on "Open". Note: The "Browse" button allows you to search for data files manually.

Then, COACHView will actually start processing the data **which can take several minutes** depending on the amount of data, and displays the analysis window.

So that you do not have to repeat the loading and processing steps, which can take a fair amount of time, we recommend you save your analysis by pressing the "Save" button in the analysis window.



You can then rename the saved file.



If all goes well, you will see a confirmation.

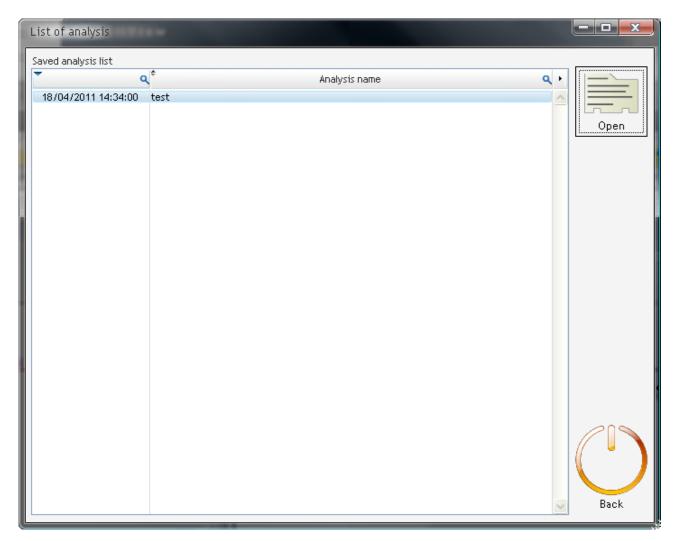


6.2 Opening a saved analysis

From the main screen, click on 'Open' and you will see the following screen.

This is in fact a list of all the saved files sorted in decreasing date/time order.

Then all you have to do is select a file and click on 'Open' to display the analysis window.





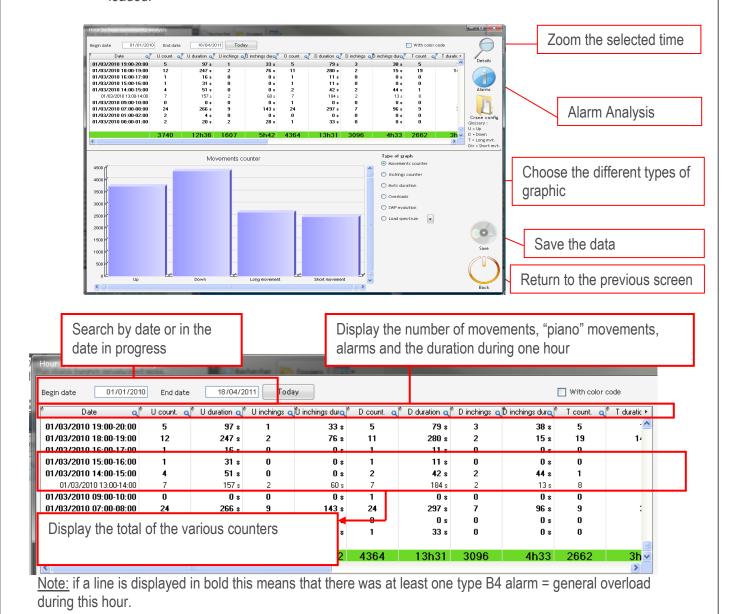
6.2 The analysis tool

This window consists of two main zones.

- The upper zone is a table where each row represents a period of an hour during which movements were detected.
 - Note: This table can be filtered by date.
- The lower zone contains several views created from the information displayed in the table above. Note: the graphics generated are also directly dependent on the date filter.

Other functions are also available in this page:

- The ability to zoom and also visualize all the movements in the selected hour
- Access to all the alarms
- Display of the application configuration file at the moment when the data being analyzed was loaded.

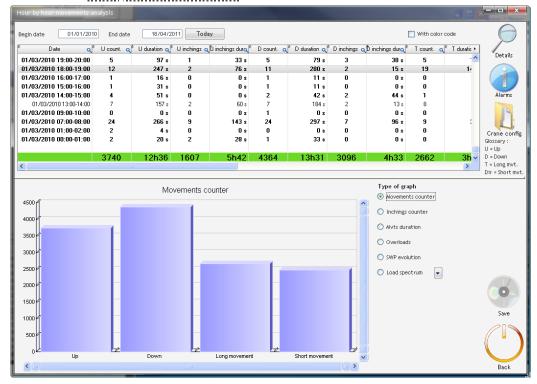


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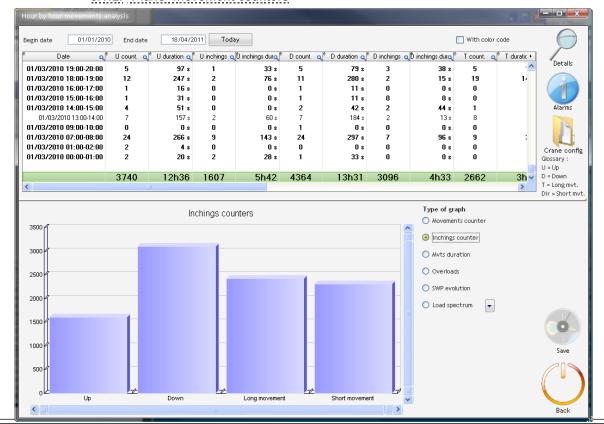


6.2.1 Types of graphics

6.1.1. Movement counters



6.1.2. "Piano" movement counters



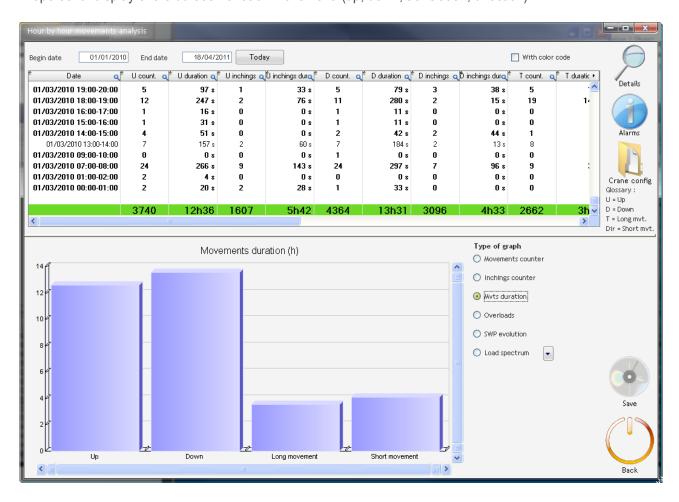


Note: a "piano" movement = 2 consecutive identical movements with a time interval between the 2 movements of less than 2 seconds

Note: more detail is given in the Coach manual).

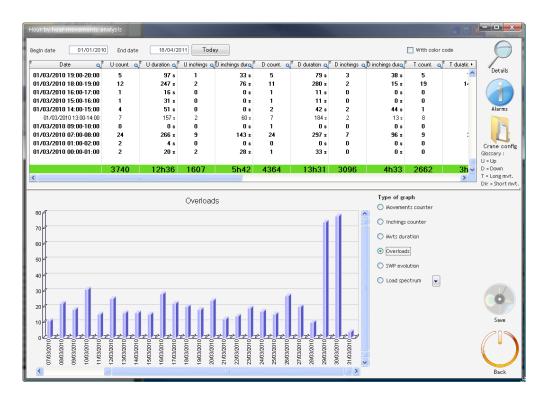
6.1.3. Duration of the movements

Proportional display of the duration of each movement. (up, down, translation, direction)

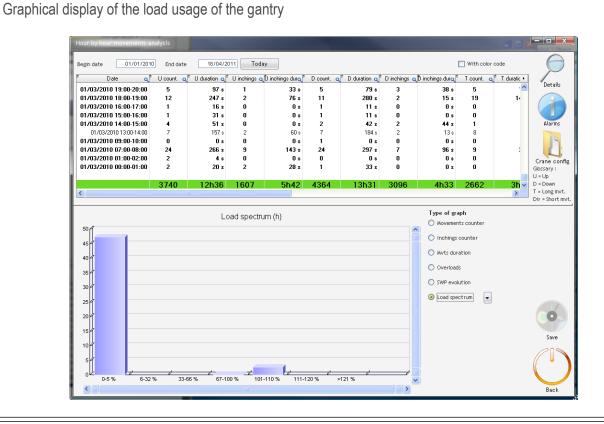




6.1.4. Display of the overload number during the time



6.2.1.1 Load spectrum





The load levels can be parameterized by clicking on the following arrow:



6.3 Zoom function

It is possible to zoom in on the last 30 days of gantry usage. That means display in detail all the movements it has made. To do this, choose a row (an hour) and double-click it or click on the icon

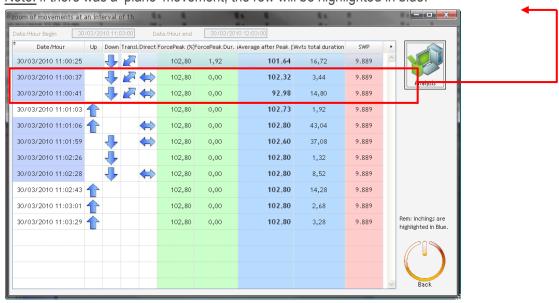


27/01/2010 07:00:00	16	11	7	15	64	38	25	62	18	9	9	10	11	16	19	15	0	0
27/01/2010 08:00:00	10	- 11	17	16	22	26	42	53	18	17	25	14	14	2	17	10	0	0
27/01/2010 09:00:00	8	6	5	4	37	8	5	6	13	13	14	14	14	15	14	14	0	0
27/01/2010 10:00:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27/01/2010 15:00:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27/01/2010 16:00:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28/01/2010 09:00:00	5	5	8	5	7	16	9	14	3	3	13	9	2	6	5	9	0	0
28/01/2010 10:00:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28/01/2010 11:00:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28/01/2010 13:00:00	8	4	9	6	44	13	16	17	13	13	13	13	30	38	45	42	0	0

A new window will be displayed with the following parameters:

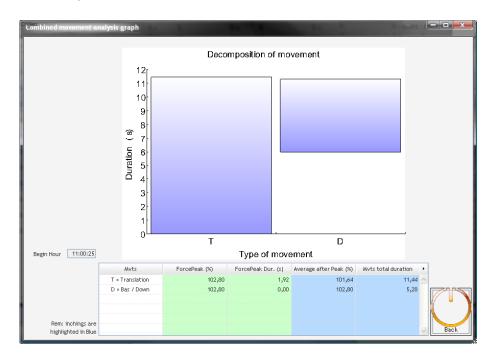
- The date + time of the movement.
- The type of movement (lift, lower, translation, direction).
- The peak force + moment of occurrence.
- The average of the signal + the total duration of the movement.
- The value of the SWP

Note: if there was a 'piano' movement, the row will be highlighted in blue.





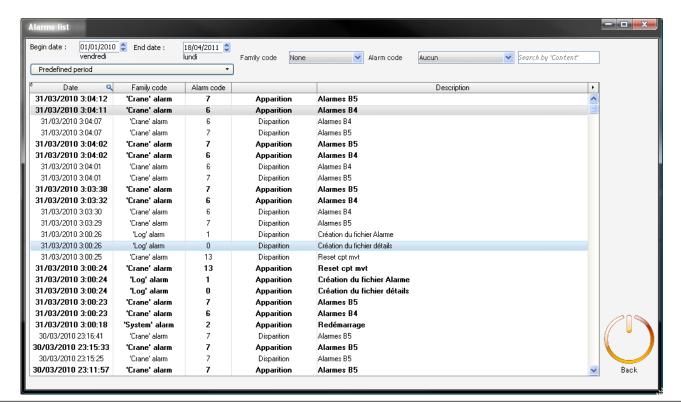
It is possible to break the movement down further. This function is interesting for a composite movement. To do this, select the movement and double-click it or select the movement and click on the icon



HANDLING ALARMS



By clicking on the 'Alarms' button Alarms' on the analysis page you can access the following page:





This contains the list of alarms detected by Coach as well as the actions triggered, sorted in descending date order.

The following filters are available:

- Date
- Family code ('système', 'pont', 'trace' (system, gantry, track) history)
- Alarm code

Note: the alarm codes are different according to the family code selected.

