Collector installation with Newsteo hosting + Webmonitor

PFPN-COL22-001

PFPN-COL11-001

PFPN-COL41-001

Purpose:

Guide for NEWSTEO Collector installation:

- When the hosting is done on the server of NEWSTEO.
- With a Webmonitor interface

Technical Assistance:

For any question, remark or suggestion concerning this product, please contact your retailer.

Manufacturer address:

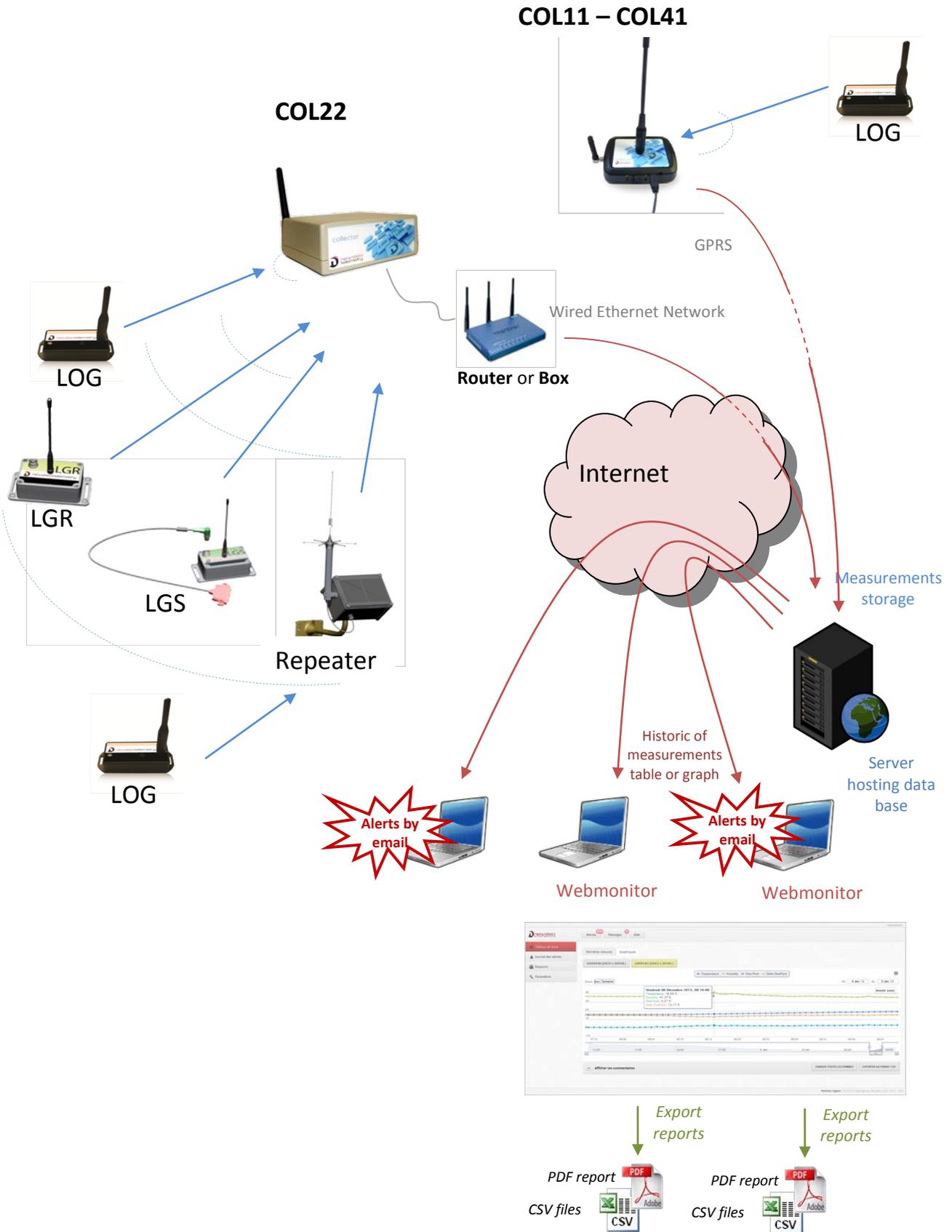NEWSTEO S.A.S. 93 avenue des Sorbiers – ZE Athelia 4- 13 600 La Ciotat – France

Data base hosting

This document allows you to install a database on a Newsteo server. This manipulation is very simple and allows you to quickly test the Collector. Newsteo offers hosting for 1 month test.

After this period, it is necessary to subscribe to a paid hosting with Newsteo.

1   Operation of a facility with Newsteo collector

COL11 – COL41

LOG

COL22

LOG

LGR

LGS

Repeater

LOG

GPRS

Router or Box

Wired Ethernet Network

Internet

Measurements storage

Server hosting data base

Historic of measurements table or graph

Alerts by email

Alerts by email

Webmonitor

Webmonitor

Export reports

Export reports

PDF report

CSV files

PDF report

CSV files

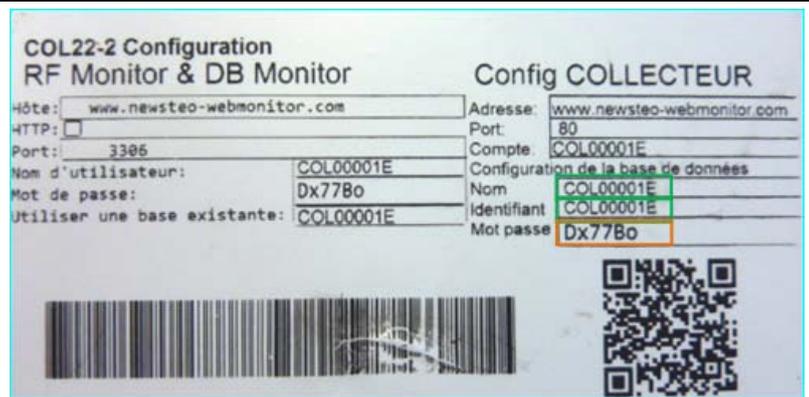## 2   Start Webmonitor on the database provided by Newsteo

> - We recommend the use of **Google Chrome**
> - Compliant with Mozilla Firefox, Internet Explorer 11

You will configure the connection to a database provided by Newsteo, allowing you to validate the correct operation of your installation.

Return your collector to find the technical information required.

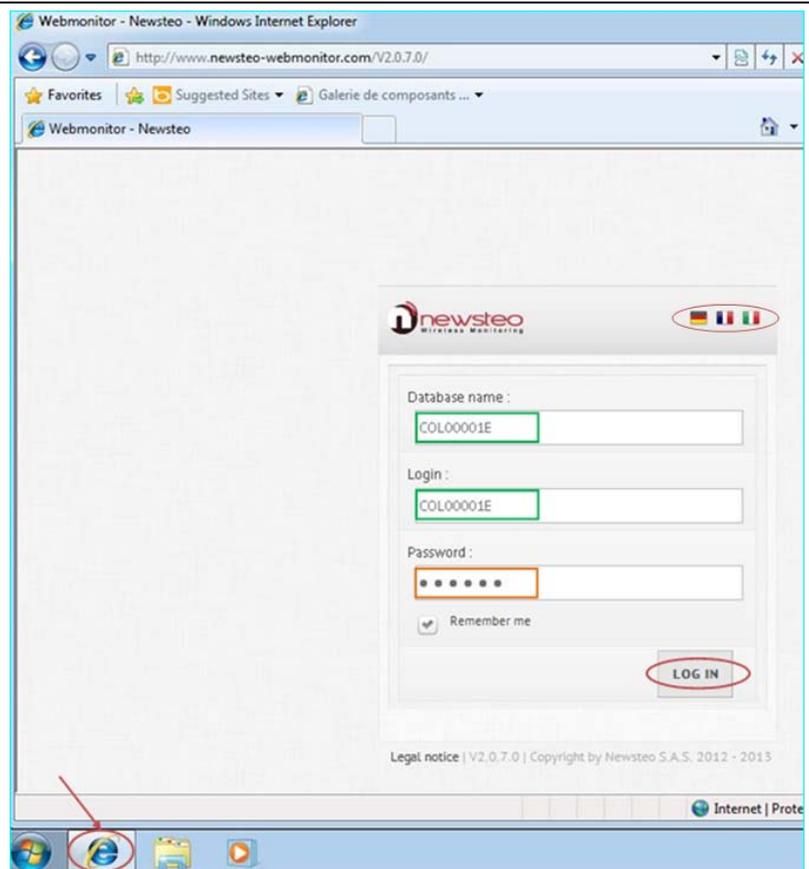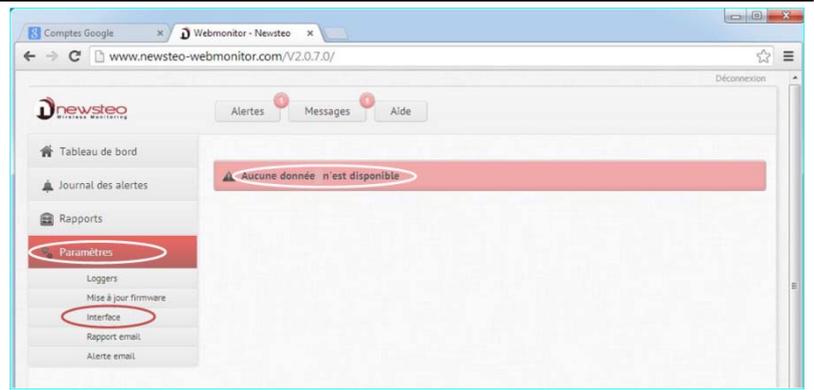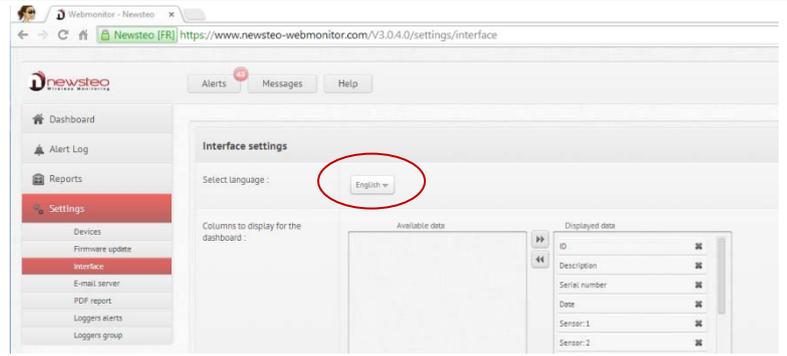|	
At the back of your COL, you will find the technical information required. • the **Database Name** • the **Login** • the **Password**	
Open your Internet Browser Enter **www.newsteo-webmonitor.com** Do not forget to select the language Enter the **Database Name** and the **Login** Enter the **Password** Click **LOG IN**	

4

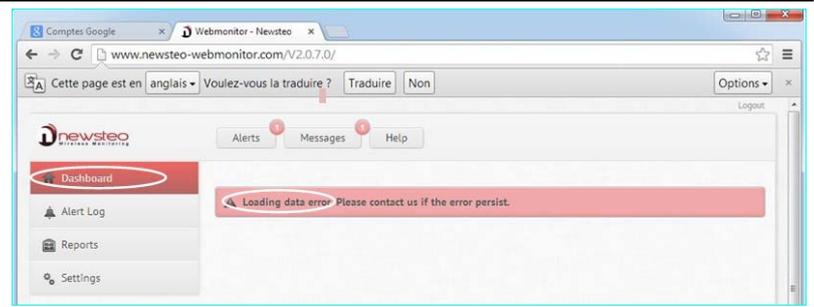|	
You get the message : "*Aucune donnée n'est disponible*" *No data available* Click on **Settings** Click on **Interface**	
Select the language	
Click on **Dashboard** You get the message : *Loading data error*.	

3   Start the COL and the loggers

3.1   Start the COL22

LED Description:
     RADIO: Indicator lights for the Radio reception
     SERVER: Indicator lights for the Ethernet communication
     POWER: Indicator lights for the Power supply
 	
 Collector connection:
 • Plug the power supply on POWER
 • Plug the Ethernet cable on ETHERNET
 • Screw the antenna on RADIO ANT.	

3.2   Start the COL11 or COL41

3.2.1   Installation and plug in

COL11:
- Screw the antennas
- Plug the power supply on : the COL11 starts

LED shows information about status of the system

GPRS status
- OFF: there is no communication
- ORANGE / GREEN: transmission in progress

Server connection
- RED: unable to connect the server
- ORANGE : data exchanges in progress
- GREEN : connection is OK

Radio communication with Newsteo Loggers
- RED: Indicates that there has been no transmission at all
- GREEN : there has been at least one transmission
- ORANGE: transmission in progress

Power supply:
- GREEN: power supply OK
- ORANGE: the power supply is insufficient
- RED : the power supply is very insufficient
- OFF : no power supply

COL41

To correctly charge the batteries, the solar panels have to be oriented to the south (direction of the sun at 12am).

The top panel supporting the antenna should be placed horizontally and without tilt.

Special care should be taken to potential buildings, trees or any shield in the sun direction.

We recommend using the Newsteo rotating foot to fix the product: it allows to simply orientating the solar panel.

Important remark: the COL41 is not resistant to lightning bolt. Before installing the product, you need to check that your lightning conductor will protect it.

- Install the COL41
- To activate the COL41, a PC and KEY should be present, running RF Monitor on channel 1.
- Pass a magnet on the ZONE ILS which is under the product : the COL41 starts

- A sound is emitted immediately when the magnet is active. Then, remove the magnet form the rear position and put it on the front panel to see the "ON" led blinking. The COL41 is now activated.

LED-PANEL shows information about status of the system

You have to put your magnet on the defined zone in order to get the information

Leds are displayed until you remove the magnet.
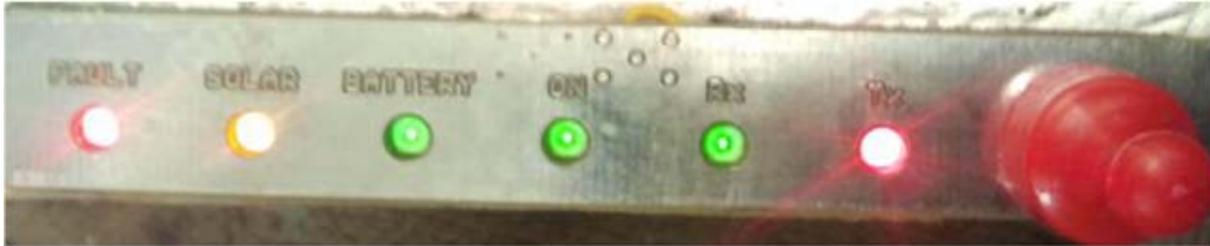
 « **FAULT** » Humidity problem

- OFF: there is no detected fault
- RED: humidity is too high inside the enclosure.

« **SOLAR** » Solar charger

- OFF: NO ENERGY CONVERSION through the solar panels (not enough sun)
- YELLOW BLINKING: moderate energy conversion through solar panels if slow blinking, fast energy conversion through solar panels if fast blinking
- FIXED YELLOW: more energy conversion trough solar panels than requested by the electronic. Additional energy is stocked in the rechargeable batteries

« **BATTERY**» rechargeable battery presence

- OFF: No rechargeable battery connected or battery empty or PCB-ON/OFF switch is OFF
- GREEN: indicates that a rechargeable battery is present and connected.
  Green does not mean that the battery level is sufficient.

« **ON** » COL activity

- OFF: Hibernate mode
- GREEN BLINKING: Active mode

« **RX** » Newsteo logger packet reception

- OFF: No radio packet from Newsteo logger.
- GREEN: one FLASH each time the COL receives a packet from a logger (868 MHz)

 « **TX** » GPRS communication

- OFF: No GSM communication to indicate
- RED: BLINKING during the connection on the GSM-Network

3.2.2 GPRS quality reception

As soon as the GPRS Collector (COL11 or COL41) is started, it makes 2 beeps.

After a moment, the Collector reaches the GPRS network. Depending on the signal quality, the Collector beeps one or several times.

First beep announces that signal quality is going to be given. 0 to 4 beeps indicate the quality of GPRS-Signal.

1 beep
Bad connection

2 beeps   3 beeps

4 beeps
Good connection
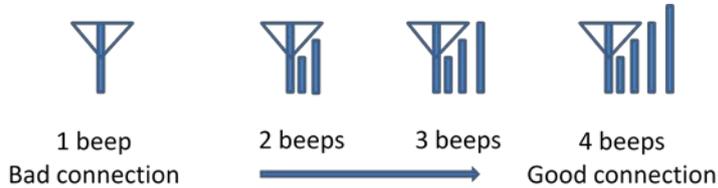
If the signal quality is bad, move the Collector and test again the reception quality by passing the magnet on the "ZONE ILS" area.

3.3 Go on www.newsteo-webmonitor.com

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Start webmonitor on the database provided by NEWSTEO (see paragraph: 2) Click on **Settings** Click on **Loggers** Tick the **Line of your COL** Click **Reload**	
COL22 : Press **ACK Button** on the back of your COL **COL11 – COL41:** Pass the magnet on the Zone ILS or magnet icon. After the sound BEEP, refresh the internet page	
The Line of your COL reappears The COL is now correctly detected	
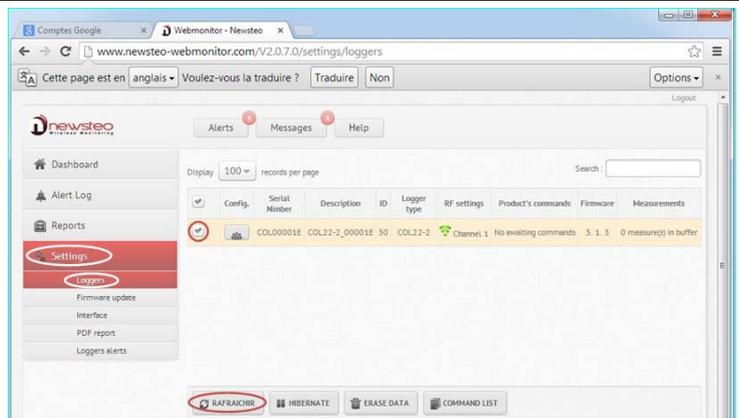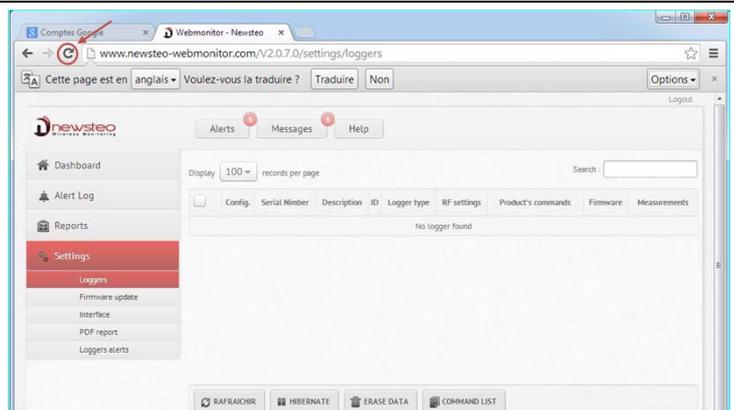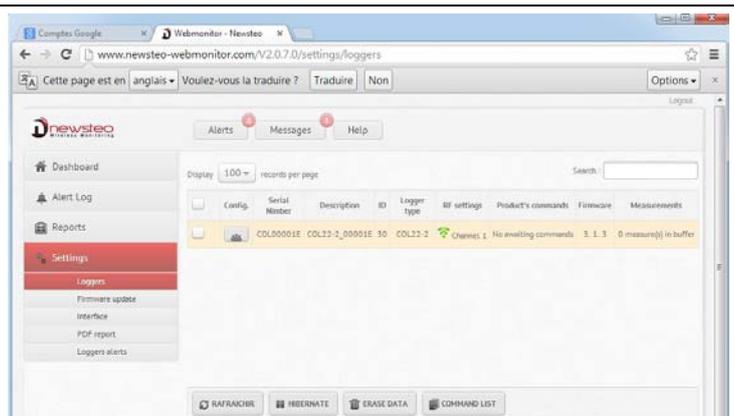
3.4   Start the loggers

Once your COL is correctly detected (see paragraph 3.1), pass the magnet on each logger to see the loggers appear in the list
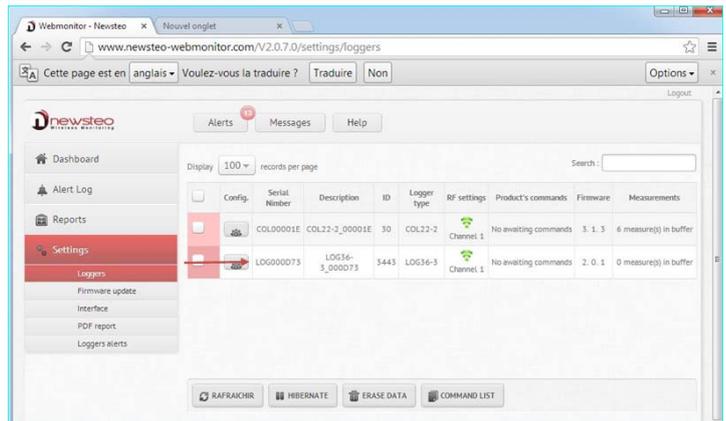
Press **ACK Button** on the back of your COL22 or pass the magnet on the Zone ILS or magnet icon for COL11 or COL41.

After the sound BEEP, **refresh the internet page**
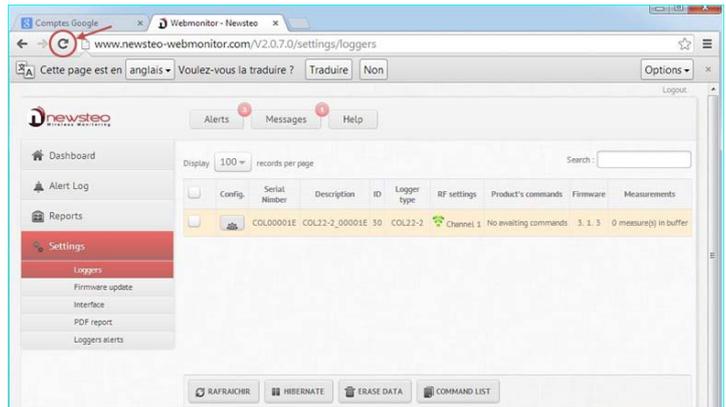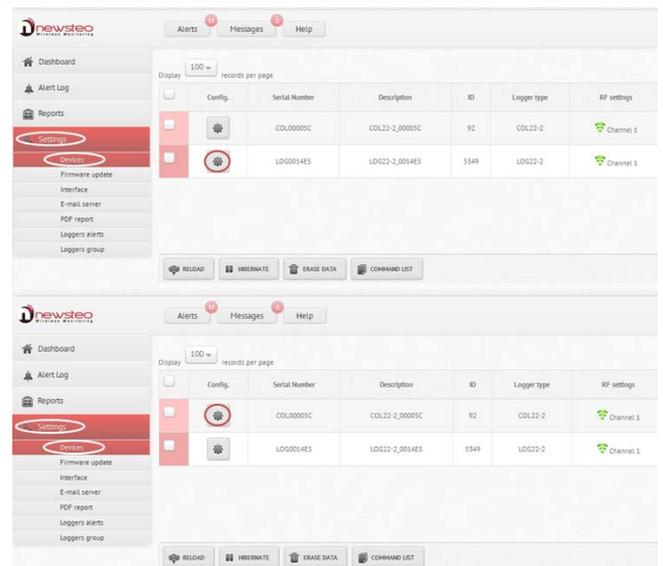

The logger appears in the list

4   Configure your products

To modify the configuration, for each product, you will have to:

Click on **Settings**
Click on **Devices**
Click on the **Configuration icon** of the logger or of the COL

First, Configure your loggers

4.1   Configure your loggers

Each time you save a new configuration for a logger, do not forget to:
- **Pass the magnet** on your logger – If you are not able to reach your logger, wait for the sound BEEP
- After the sound BEEP or after 1 or 2 minutes, **refresh the internet page** *(click F5)*

4.1.1 Configure the Identification

For each logger that you have:

Click on **Devices identification**

➔ You can change the device ID (ex: 1, 2 ….)
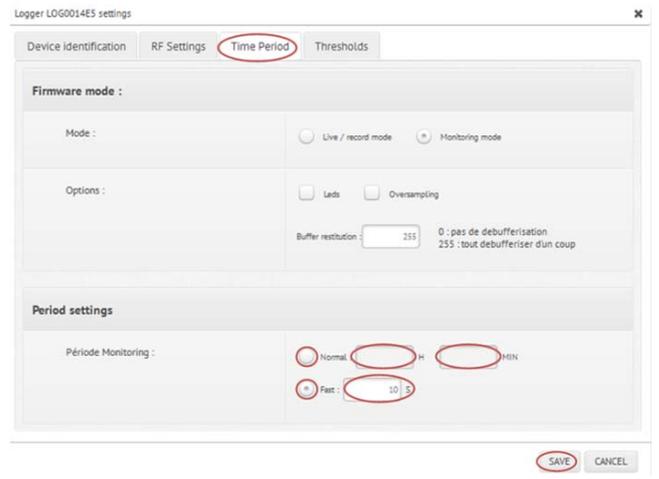➔ You can change the Devices description (ex: warehouse)

Click on **Save**
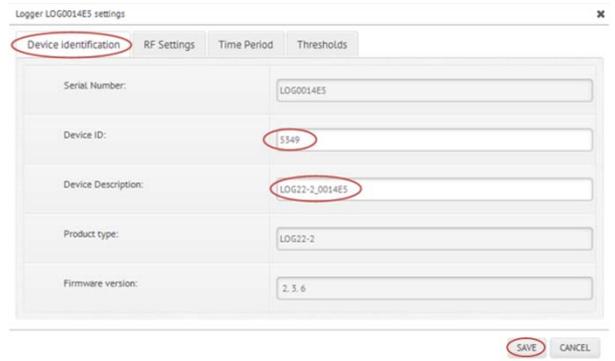
4.1.2 Configure the period of measure – Time Period

For each logger that you have:

Click on **Time Period**

➔ Select **Normal** to give a value in hours and/or in minutes
➔ Select **Fast** to give a value in second lower than 1 minute

Click on **Save**

4.1.3 Configure the thresholds

For each logger that you have:

Click on **Thresholds**

➔ Select a **sensor** (ex: temperature or humidity)
➔ Select **Activate** to activate the thresholds on the sensor
➔ Move the **Cursors** or directly give the values for the thresholds

Click on **Save**
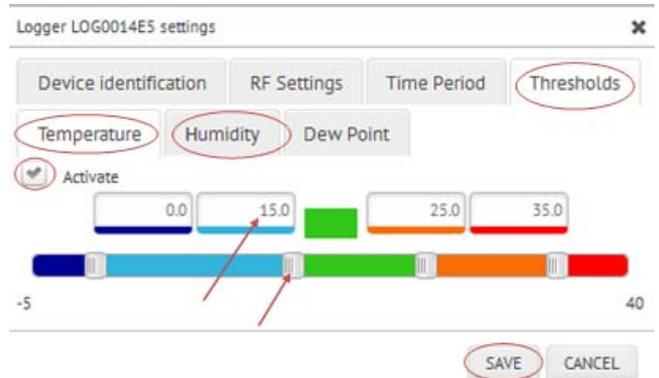
4.1.4   Configure the channel – RF settings

You powered your COL and your logger(s) by default on the channel 1 which is the channel for startup.
You must now change the channel:

- Use the securization of the channel **if this option is available for** <u>all</u> **your loggers** (available for **all LOG** - also available for **all LGR which have a** "**Calibration usine**")
- You must **modify the channel of all your loggers before modifying the channel of your COL**
- The loggers and the COL must have the **same channel** to communicate

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For each logger that you have:

Click on **RF Settings**

➜ Select a working channel different from the channel 1
➜ Activate the security (if available for all your loggers) – by default the securization proposed is the serial number of your COL

Note:
Chanel

Security

Click on **Save**
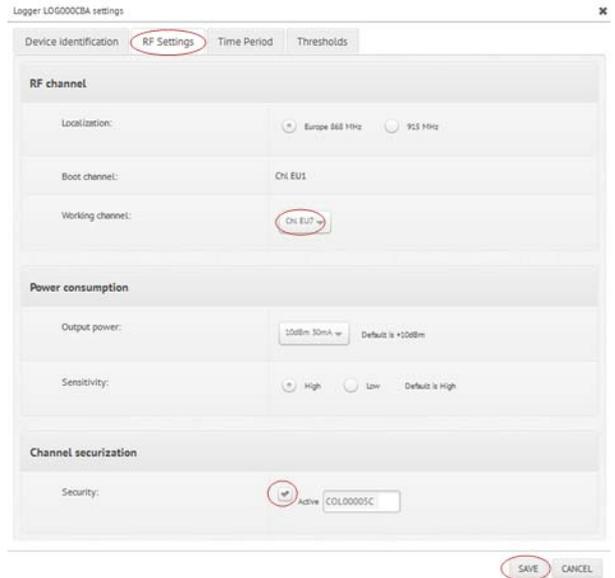
Remark: As for each command, after the save, pass the magnet on your logger to send the command.
After that, the line of the logger **still indicates that a command is waiting.**
It's normal, because the COL cannot communicate anymore with the logger.
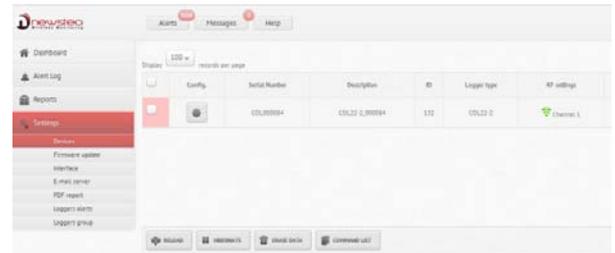
Click **Settings**
Click **Devices**
Select the Line of your LOG
Click **Reload**
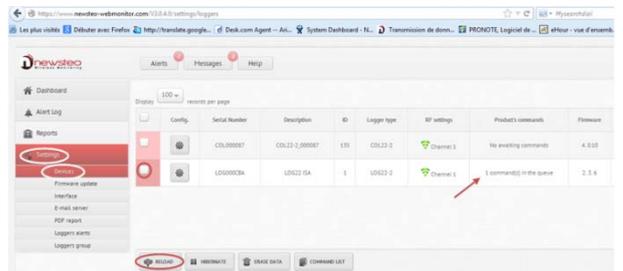
The line of the logger disappears

Warning: To be able to continue to communicate and to configure the loggers, you must set all the loggers on the same channel. For this, you must also configure the COL on the same channel (4.2.2 Configure the channel – RF settings)

4.2   Configure your COL

Each time you save a new configuration for the COL, do not forget to:

- Press **ACK Button** on the back of your COL22 or pass the magnet on the Zone ILS (COL41) or magnet icon (COL11). - If you are not able to reach the COL, wait for 2 minutes
- After the sound BEEP, **refresh the internet page** *(click F5)*

4.2.1   Configure the Identification

Click on **Devices identification**

➔ You can change the device ID (ex: 1, 2 ….)
➔ You can change the Devices description (ex: roof)

Click on **Save**

4.2.2   Configure the channel – RF settings

You powered your COL and your logger(s) by default on the channel 1 which is the channel for startup.
Once you have changed the channel of all your loggers, you must change the channel of your COL:
- Use the **same configuration** (channel and securization) as the one use for **your loggers** because the loggers and the COL must have the **same channel** to communicate

Click on **RF Settings**

➔ Select the same working channel as the one use for your loggers
➔ Activate the security if you did it for the loggers – use the same securization as the one used for your loggers

Click on **Save**

- Press **ACK Button** on the back of your COL22 or pass the magnet on the Zone ILS (COL41) or magnet icon (COL11). - If you are not able to reach the COL, wait for 2 minutes
- After the BEEP, **refresh the internet page** *(click F5)*

The new working channel of the COL is now displayed with the securization symbol (if used)

- Pass the magnet on your loggers
- After the sound BEEP, **refresh the internet page** *(click F5)*

The new operating channel of the loggers is now displayed with the securization symbol (if used).
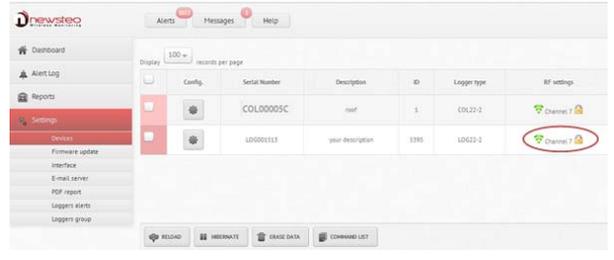
4.2.3   Collector settings

Click on **Collector Settings**

COLLECTED MEASURED
The **transmission frequency** is the transmission frequency of the collected data (by the collector) to the database - We recommend not changing this value.

SEND EMAILS IN CASE OF ALERT
You can define here the frequency of the alert that you need for the emails.(for all the alerts (not recommended) only for the first x alerts, if you need a email when the alert is ended, …

You can activate the alarm when there is a lost of transmission between the COL and the loggers (3 periods without measures recommended in this case)

Click on **Save**

You won't have to modify the **Server configuration** and the **Database configuration** if you keep using the Newsteo database
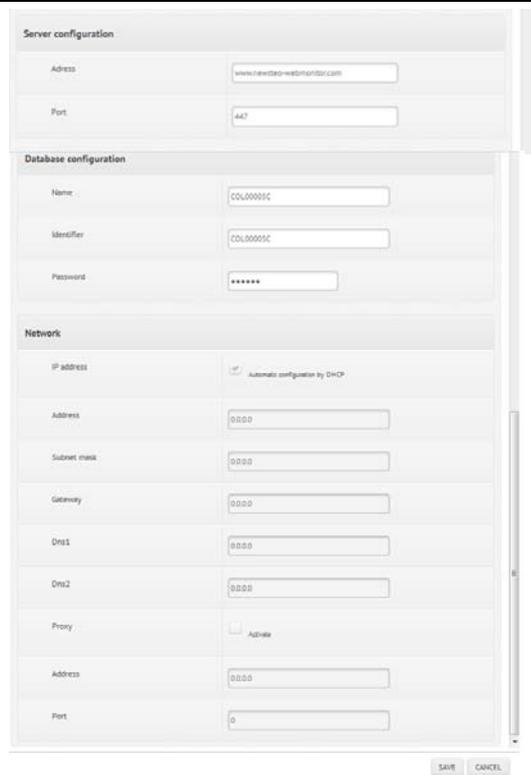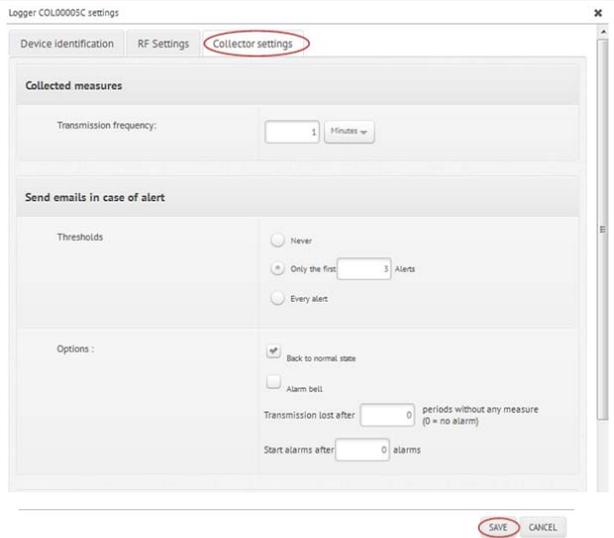
4.2.4 Configure your email alert

Click on **Settings**
Click on **E-mail Server**

Configure the server to send your e-mail alerts
Ask for your network administrator for this configuration.
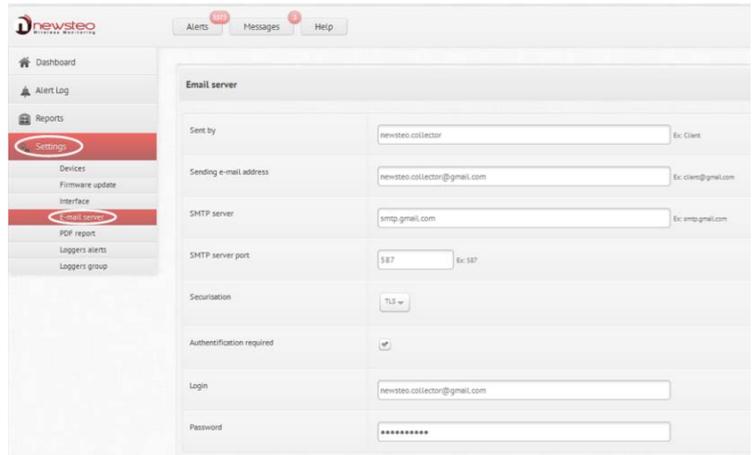
Click on **Test Settings**
Verify in e-mail box that you received the e-mail of test

Click on **Settings**
Click on **Loggers alerts**
Click on **Add an e-mail**
Enter the e-mail of the person who will receive the alerts
Click on **OK**
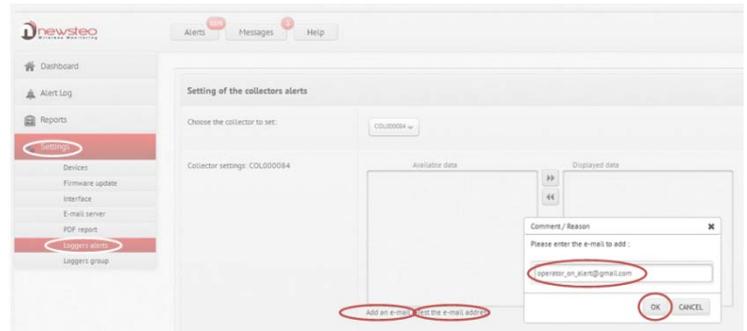
Click on **Test the e-mail address**
Verify in their e-mail box that they received the e-mail of test

5 Use WebMonitor to display the measurements

5.1 Dashboard

In the Dashboard, you directly visualize the last measures for all the loggers.
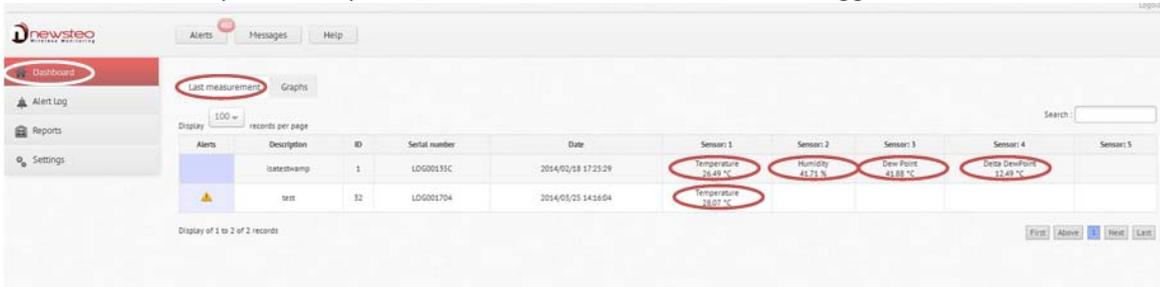
By clicking on the line of a logger, you get directly the corresponding graph.
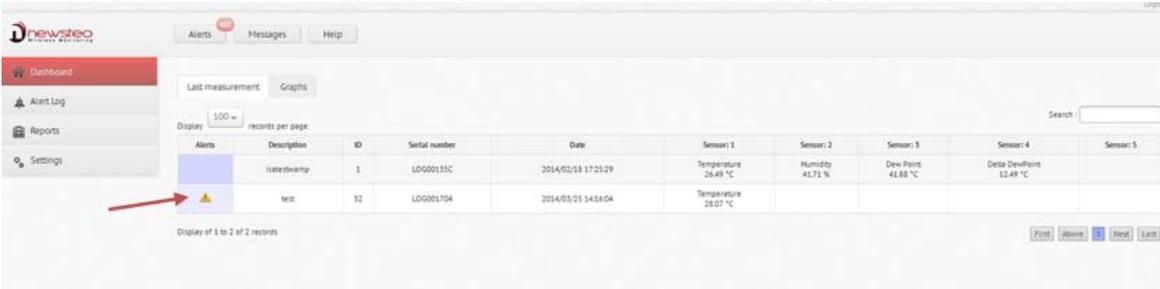
Or by clicking on the **Graphs** tab and by selecting the logger, you also get the corresponding graph
You can unselect a sensor by clicking on it (i.e.: humidity)
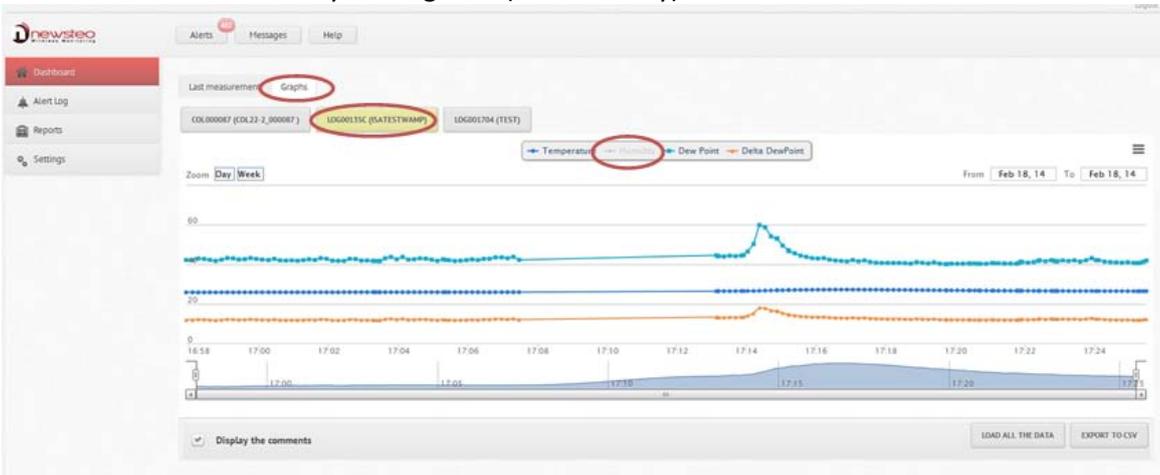
You can visualize a day, a week or a personalized period.
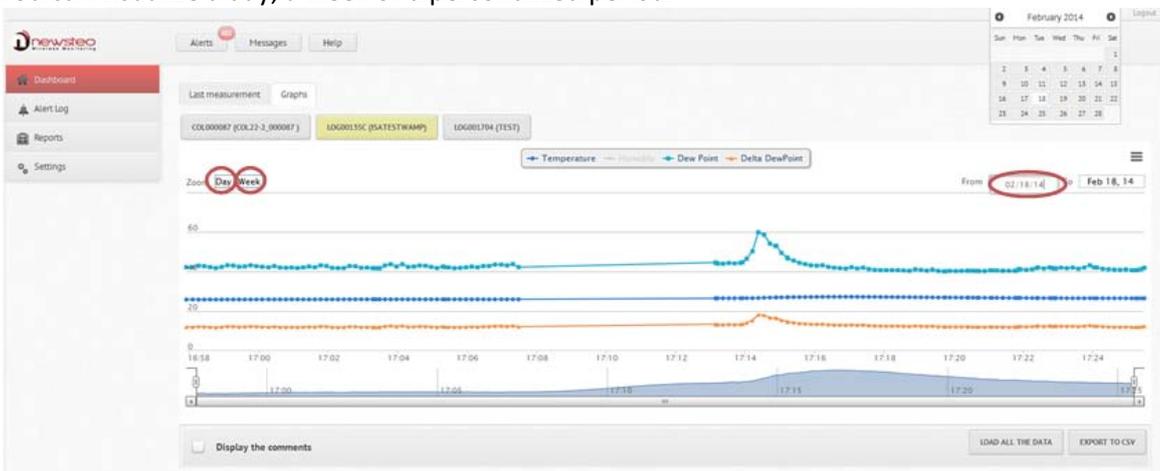
You can make a zoom on the graph by moving the cursors:
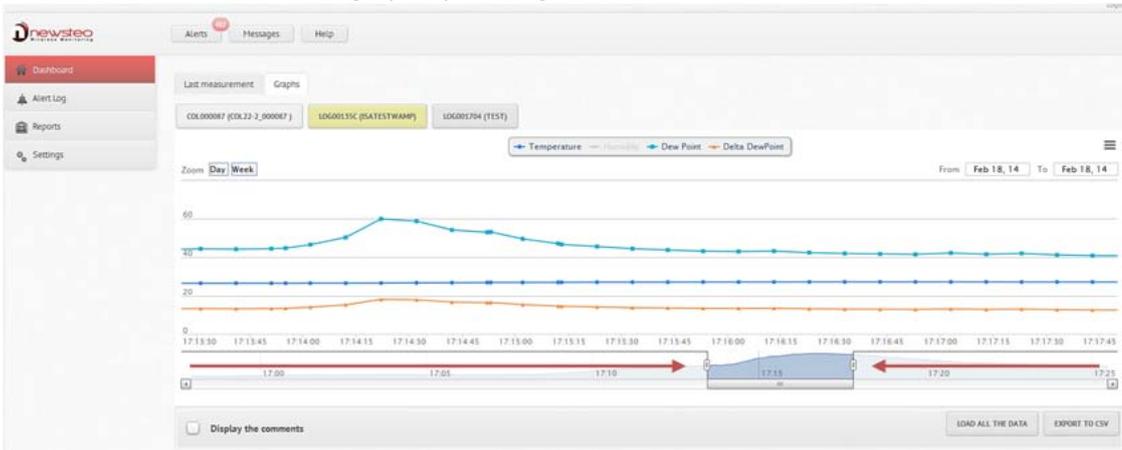
You can directly get information on your graphic by pointing the mouse on a measurement:
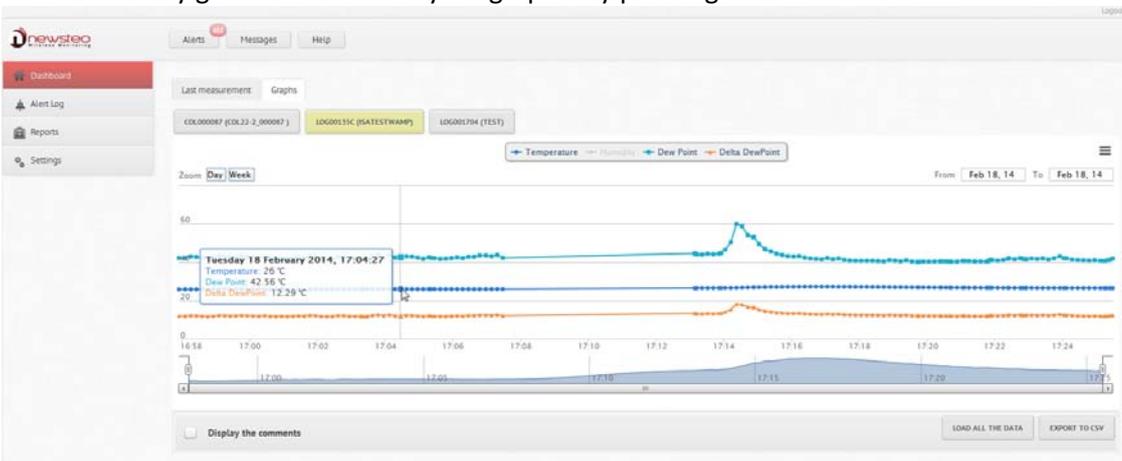
Click on the point that you need to comment, enter your comment then click on OK:
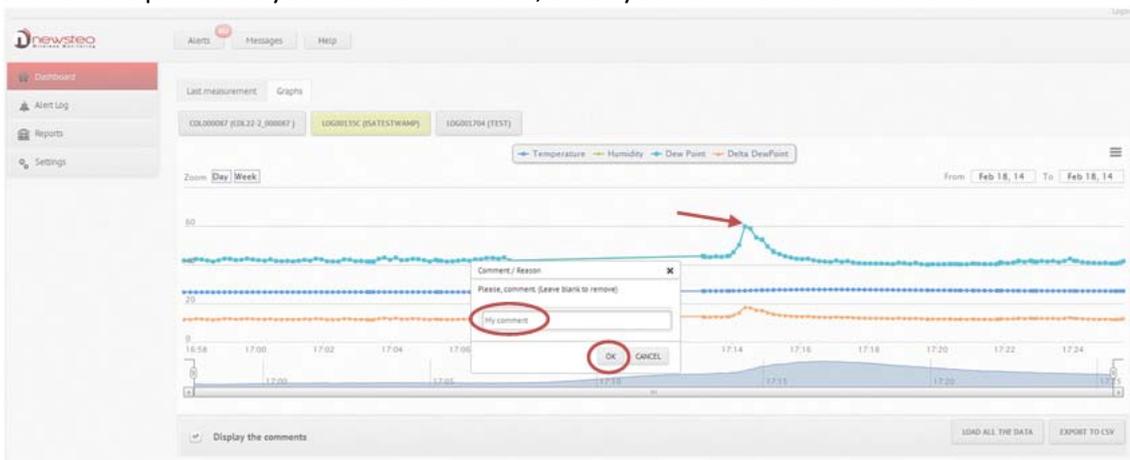
The comment is now displayed on the graph - You can choose to display or not the comments on the graph
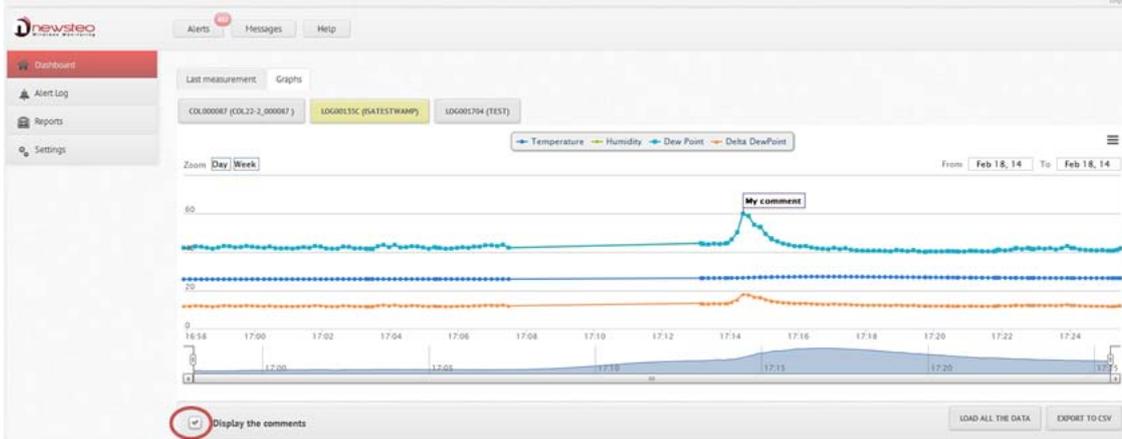
You can export the measurements in a .csv file
You can also print the graphic (.jpg, .png …)
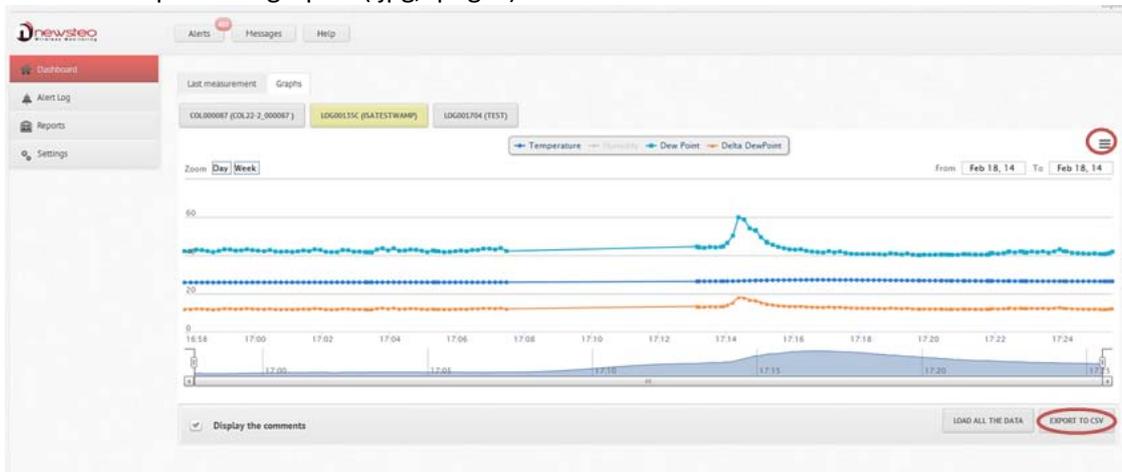
5.2   Reports

To generate a reports, click on the **Reports** tab, select the device for which you need a report, select the date for the beginning and the end of the report, then click on **GENERATE**

5.3   Alert Log

Click on **Alert Log** to visualize all the alerts.
You can comment one alert by clicking on **Click to edit** on the line of the alert. Enter your comment an click on **Save.**
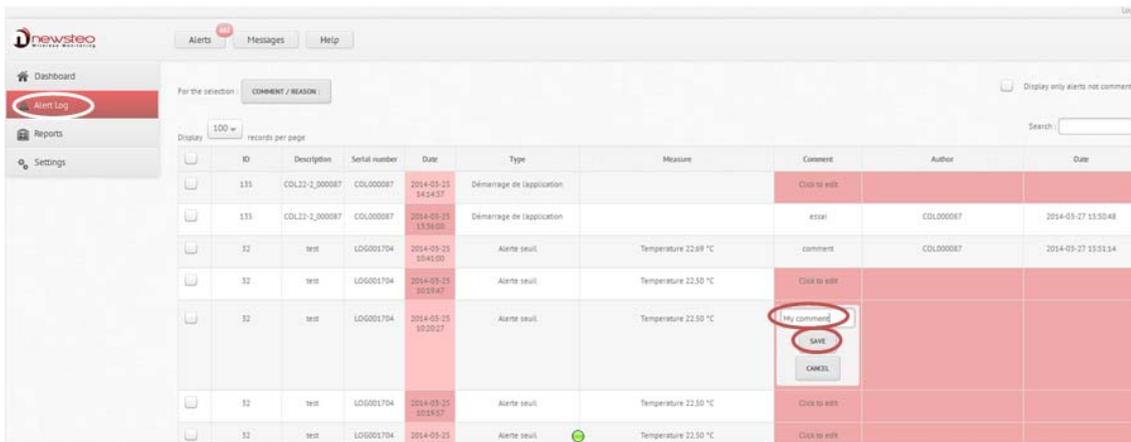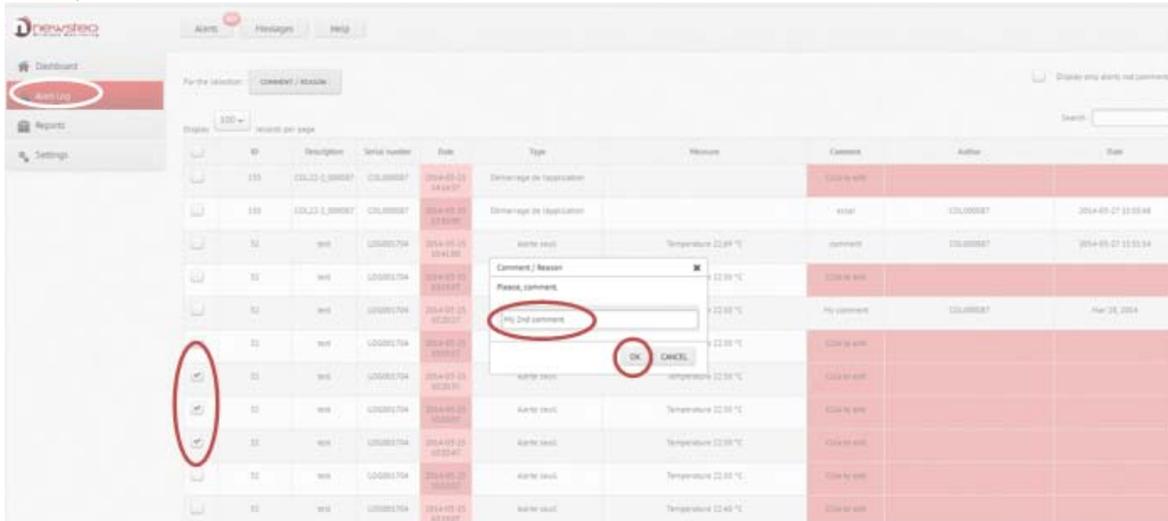

You can comment several alerts at the same time with the same comment.
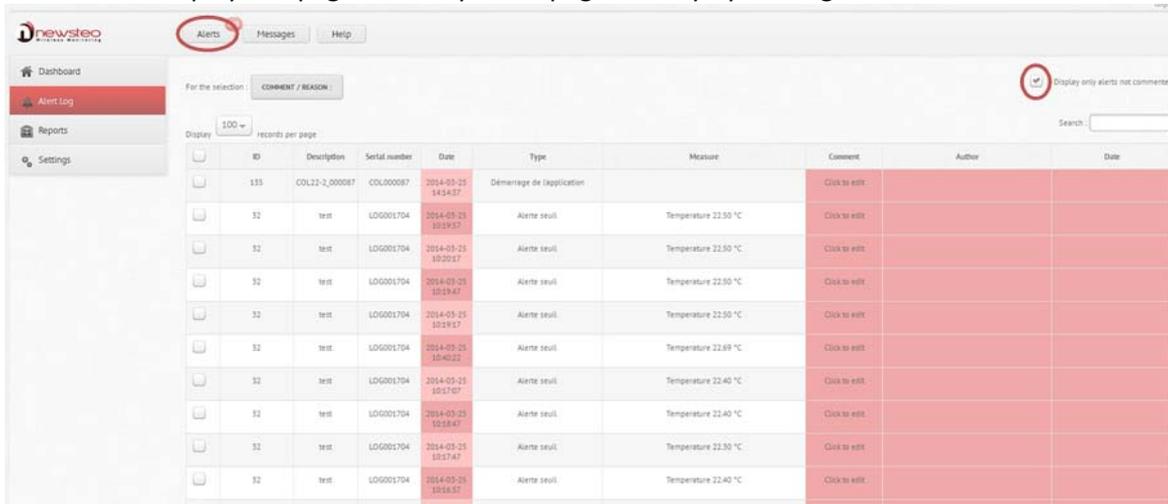Select the alerts that you need to comment.
Click on **COMMENT/REASON**
Enter your comment an click on **Save**

You can **display only not commented alerts.**
You can also display this page from any other page directly by clicking on the **Alerts** Tab

You can comment all the alerts at the same time.
Select all the alerts
Click on **yes** to include all the alerts
Click on **COMMENT/REASON**
Enter your comment an click on **Save**

All the alerts are now commented
Unselect and reselect **Display only not commented**

It cleans the list of alerts

5.4   Generate automatic reports

Once you configured your email server (see 2.2.4),
Click on Settings/PDF reports
Select the frequency for the report
Select the loggers for which you want a report
Add one or several email addresses – click on OK
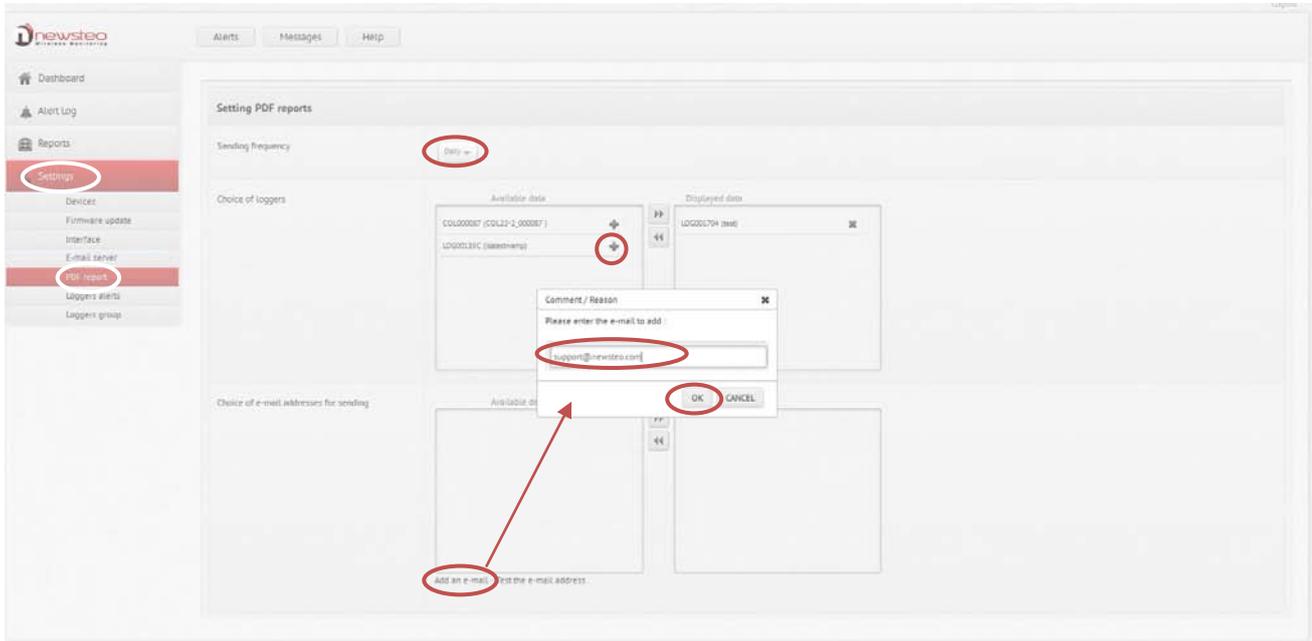

5.5   Configure users with different rights

The menu *Settings / Manage users* allows you to create users / groups with different permissions.

By default, this option is deactivated: there is only one user (given at the back of the collector) and he has all the rights on the application. If you activate the user management, it cannot be deactivated latter. The activation is definitive.

As soon as you activate the option, you get the followings menu:
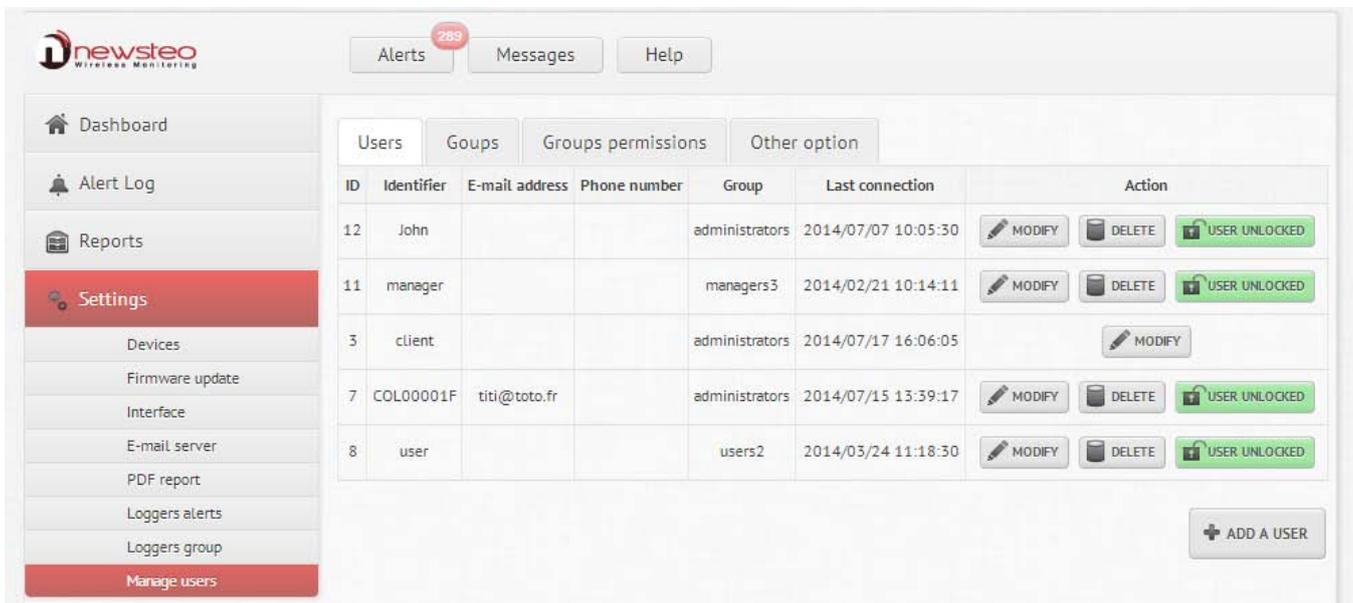
Please notice:

- The user "COLxxxxxx" cannot be suppressed. Its group cannot by modified (he is in the administrators group)
- The Group Adminitrators has all the permissions. It is not possible to remove permissions to this group.

5.5.1 Create a user / Add a user

To create new user, click on Add a user and fill the form

The identifier and password will be used by the new user to connect webmonitor. The Database name remains unchanged.

You can associate the new user to a Group or not. If not, the user is blocked, it is not activated yet. **The permissions are given to a group (not a user). It is then mandatory to put each user into a group.**

5.5.2 Create a group
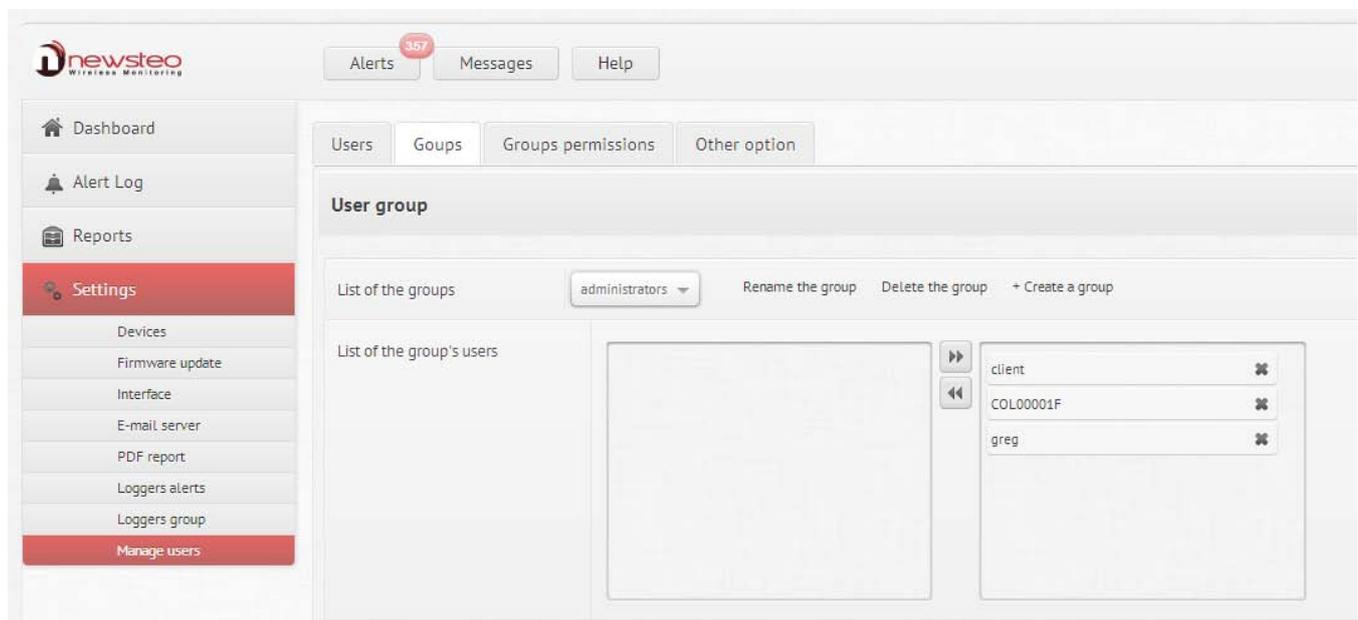
Click on *Groups*. Then, you can manage existing groups by selecting one is *List of the groups* or you can create a new one by clicking on *Create a group*. You can then modify the users inside each group.

5.5.3   Modify Permissions of a group

Click on *Groups permissions*. Select the group you need to set in *List of the groups*. You can then tick or not the different actions or menus available for the users.

5.5.4   Other option

Maximum login attempts before locking the user: if the user enters too many times a wrong password, its account is blocked. You can fix here the number of attempts he can do.

5.5.5   Unlock a user
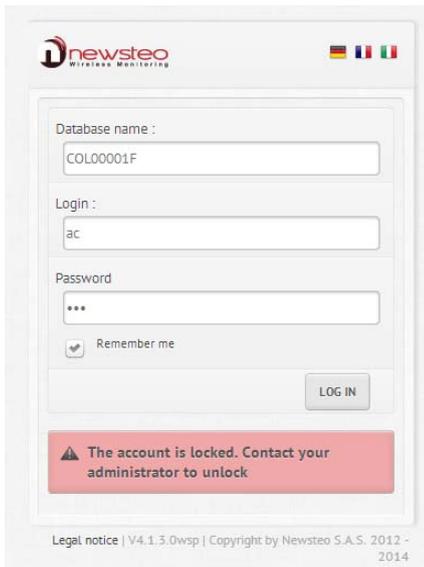
To unlock a user, you need to use another user who belongs to a group which has the permission on the *Users management*.

Go in the menu *Settings / Manage users*, and click on the button *USER LOCKED* corresponding to the user you would like to unlock. The user is then reactivated.