

LCC-S

Configuration software for transmitters



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1. Introduction

The LCC-S software, available as option with the classes 110, 210, 310 and monostats transmitters allows to configure the transmitter, to view data in real time and to apply an offset.

2. Software installation

2.1 *Minimum system requirement*

For the proper operating of the software, the following configuration is strongly required :

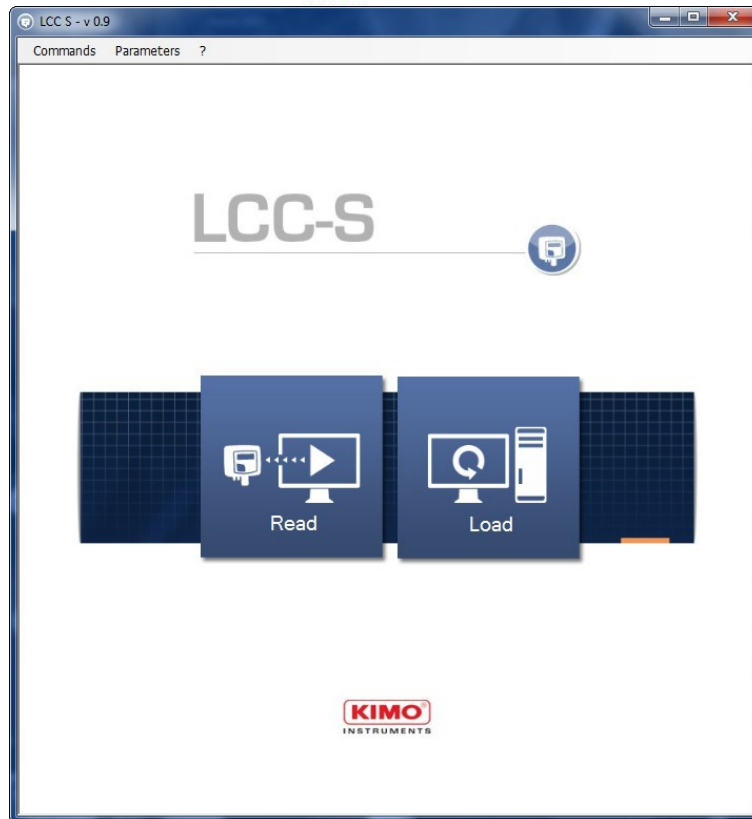
- **Minimum configuration:** Windows, XP, VISTA, 7
- **Communication port :** USB 2.0
- **DVD driver**
- **RAM memory :** 1 GO
- **Available free disk :** 1 GO

2.2 *Installing the software*

- Put the DVD into the computer driver.
The installation starts automatically. If not, go to “Computer”, double-click on the DVD driver then on the “SetupLCC-S” icon.
- Follow the indications on the screen.

3. Start with the software

After double-clicking on the icon of software launching  on the desktop, the homepage of the software opens :



3.1 *Meaning and function of the menus bar*

➤ **Commands**

- **Read configuration** : allows to read the configuration of the transmitter connected to the computer.
- **Write configuration** : allows to send the configuration to the transmitter.
- **Load configuration** : allows to recover a configuration previously saved on the computer.
- **Save configuration** : allows to save the configuration of the transmitter on the computer.
- **Correction** : allows to apply a correction (or offset) to the transmitter.
- **Bootloader** : allows to change the firmware version of the transmitter.
- **Exit** : allows to quit the LCC-S software.

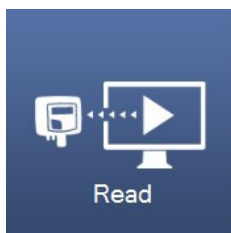
➤ **Parameters**

- **Communication** : allows to select the communication port.
- **Languages** : allows to select the software language : French or English

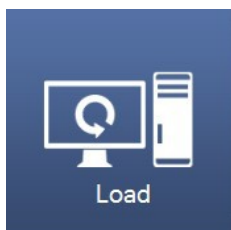
➤ **? :**

- **User manual** : allows to open the user manual
- **About** : shows the version software and the version database.

3.2 *Meaning and function of the “Read” and “Load” buttons*



This button allows to read the transmitter connected to the computer.



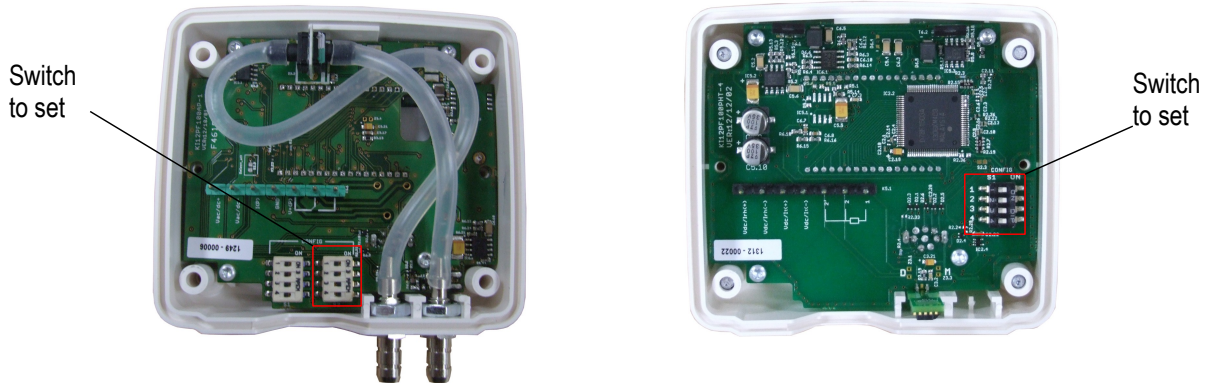
This buttons allows to load a configuration previously load on the computer.


4. Read the transmitter

4.1 Class 110 and monostats transmitters

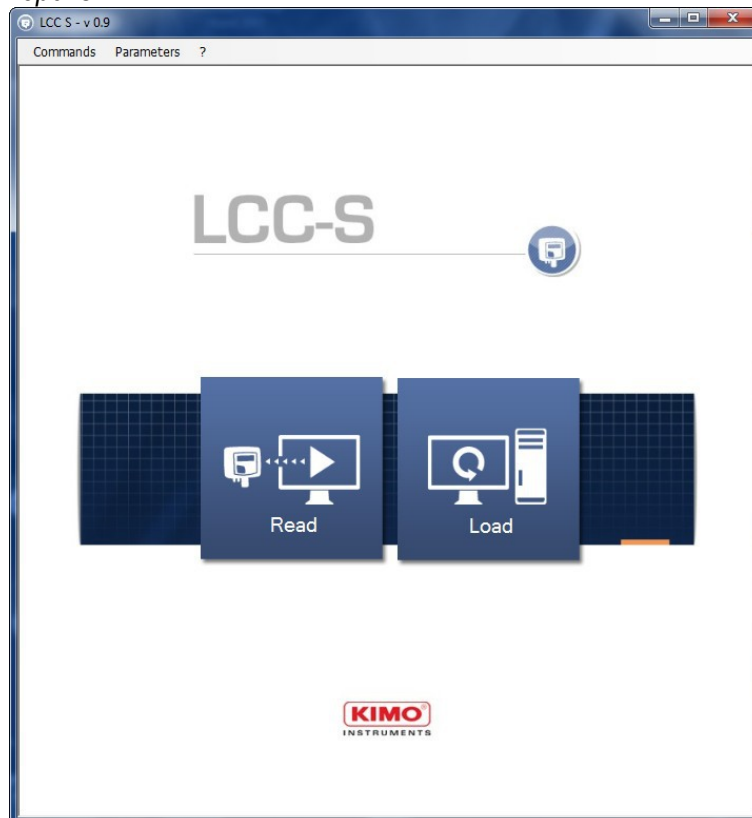
In order to the LCC-S software can correctly read a class 100 or a monostat transmitter, DIP switches of the transmitter must be positioned as follow :

- If only one switch is on the electronic board, set the 4 DIP-switches on “ON” position, it means on the right.
- If two switches are on the electronic board, set the 4 DIP-switches of the **right switch** on “ON” position it means on the right.

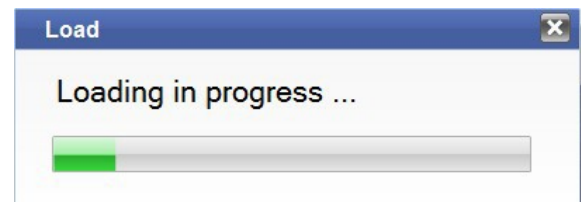


 The transmitter must be powered on.

- Connect the mini-DIN connection of the cable on the front face of the transmitter.
- Connect the other end of the cable on the USB connection of the computer.
- Double-click on the software icon on the desktop to launch the LCC-S.
The following window opens.



- Click on “Read” button.
The loading window opens :



At the end of the loading, the software opens “General” panel.



This window presents the type of connected transmitter, the transmitter version, its possible options and the switches configuration.

4.2 Class 210 and 310 transmitters

For the class 210 transmitter, there is no switch configuration needed.

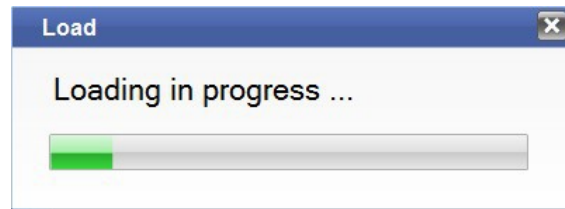
For the class 310 transmitter, there is no switch.

- Open the transmitter and connect the mini-DIN connection on the transmitter (see technical datasheet).
- Connect the other end of the cable on the USB connection of the computer.
- Double-click on the software icon on the desktop to launch the LCC-S.

The following window opens.



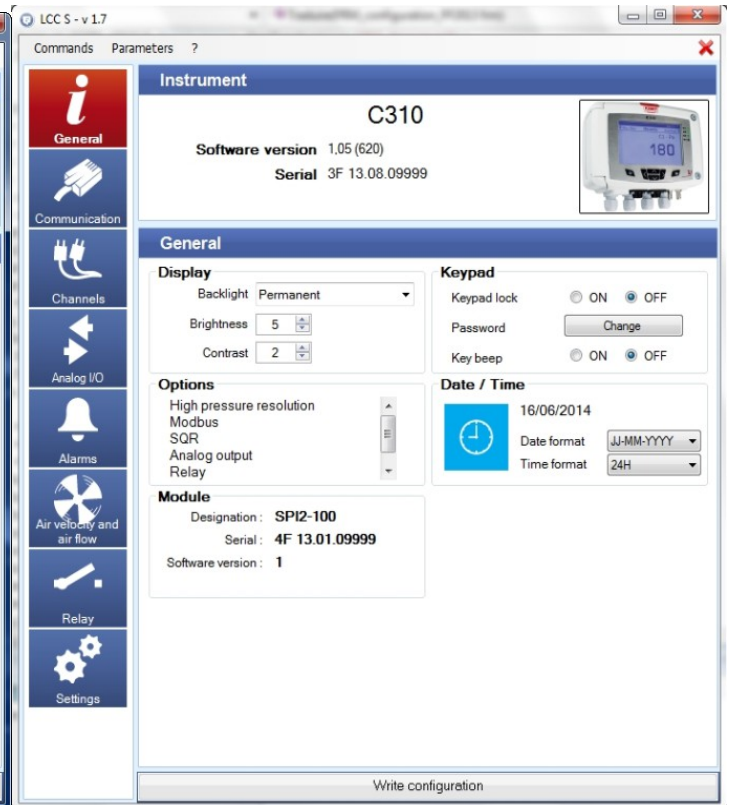
- Click on **“Read”** button.
The loading window opens :



At the end of the loading, the software opens **“General”** panel.



“General” panel for a class 210 transmitter



“General” panel for a class 310 transmitter

For a class 210 transmitter, this window presents the type of connected transmitter, the transmitter version, its possible options, its display (if there is one), the **“On”** or **“Off”** mode of the keypad and the type of output of the transmitter.

For a class 310 transmitter, this window presents the type of connected transmitter, the transmitter version, its possible options, its display (if there is one), the settings of the keypad, the date and the hour.

5. Configure the display and the keypad (classes 210 and 310)

5.1 Configure the display

On “General” panel, for class 210 and 310 transmitters with display, it is possible to set the backlight duration, the brightness and the contrast of the screen

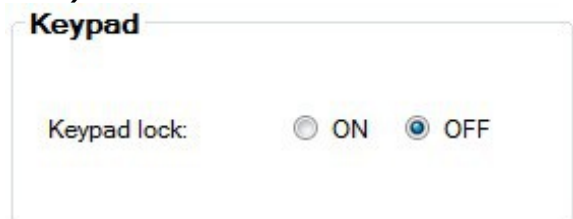
- Set the backlight : select the required duration between Off, 10 s, 30 s, 60 s, and permanent.
- Set the brightness between 0 and 10.
- Set the contrast between 0 and 3.
- Click on “**Write configuration**” button on the bottom of the window to send the modifications to the transmitter.



5.2 Activate or deactivate the keypad (class 210)

For more safety and avoid any operating error, it is possible to hold the keys of the transmitter.

- Select “**ON**” to deactivate the keys or “**OFF**” to activate them.
- Click on “**Write configuration**” button on the bottom of the window to send the modifications to the transmitter.




5.3 Configure the keypad (class 310)

5.3.1 Activate or deactivate the keypad

For more safety and avoid any operating error, it is possible to hold the transmitter keys.

- Select “**ON**” to deactivate the keys or “**OFF**” to activate them.
- Click on “**Write configuration**” button at the bottom of the window to send the modifications to the transmitter.



5.3.2 Change the password

For more safety, the keypad of the class 310 transmitters is protected by a password.

- Click on “**Modify**”.
- Enter a new password then click on “**Validate**” button.
- Click on “**Write configuration**” button at the bottom of the window to send the modifications to the transmitter.

5.3.3 Activate or deactivate the key beep

- Tick “**ON**”: the key beep is activated.
- Tick “**OFF**”: The key beep is deactivated.
- Click on “**Write configuration**” button at the bottom of the window to send the modifications to the transmitter.

Note: the key beep is unavailable on the CPE310-S transmitters.

5.4 Modify the date and hour format (class 310)

- Select the date format and the hour format.
- Click on “**Write configuration**” at the bottom of the window.



The date and the hour automatically synchronises with the computer.

Date / Time

16/06/2014

Date format JJ-MM-YYYY ▼

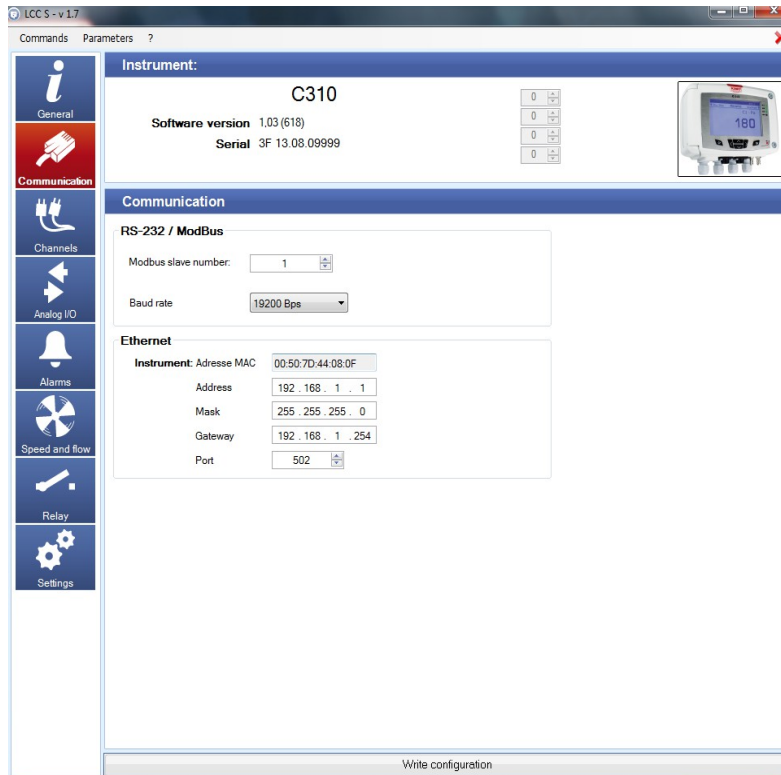
Time format 24H ▼

6. Configure the Modbus and Ethernet communications (class 310)

6.1 Configure the Modbus communication

The Modbus is a RTU digital protocol with a configurable communication speed from 2400 to 11520 Bauds.

- Click on “**Communication**” button.
The following window opens.



In the “**RS485 / ModBus**” part :

- Select the ModBus slave number
- Adjust the communication speed from 19200 to 115200 bauds.
- Click on “**Write configuration**” at the bottom of the window to send the modifications to the transmitter.

6.2 Configure the Ethernet communication

The Ethernet communication module allows the transmission, the supervision and the maintenance of the transmitters through an Ethernet network in 10 BASE-T and 100 BASE-TX LAN/WAN supporting the TCP/IP protocol.

In the “**Ethernet**” part :

- Enter the address, the mask, the gateway and the port.
These informations are contained in the network characteristics to which will be connected the transmitter.
- Click on “**Write configuration**” at the bottom of the window to send the modifications to the transmitter.



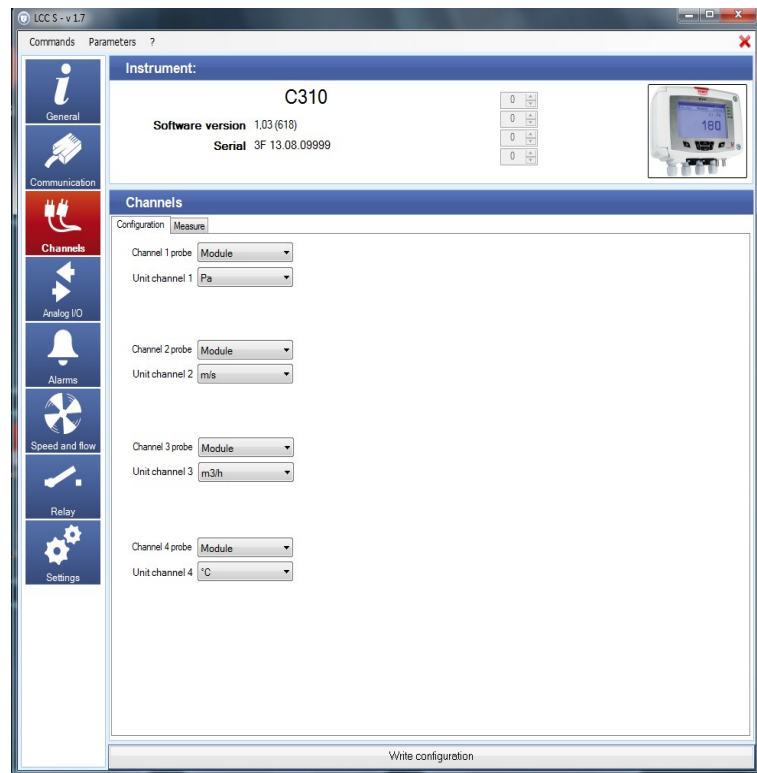
The Ethernet communication is unavailable on the CPE310-S.

7. Set the channels and the units of measurement

- Click on **“Channel”** button.
The following window opens.



Channels configuration classes 110 and 210 transmitters and monostats



Channels configuration class 310 transmitter

This part has two tabs :

- **“Configuration”** tab
- **“Measure”** tab (see page 25)

Classes 110, 210 and Monostats :

- Click on **“Configuration”** tab.
- Select in the drop-down list the unit of measurement for the channel 1.
If the transmitter has several measurement channels, the others channels will be displayed with the units available for these channels.
- Click on **“Write configuration”** button on the bottom of the window to send the modifications to the transmitter.

Classes 310 : (unit)

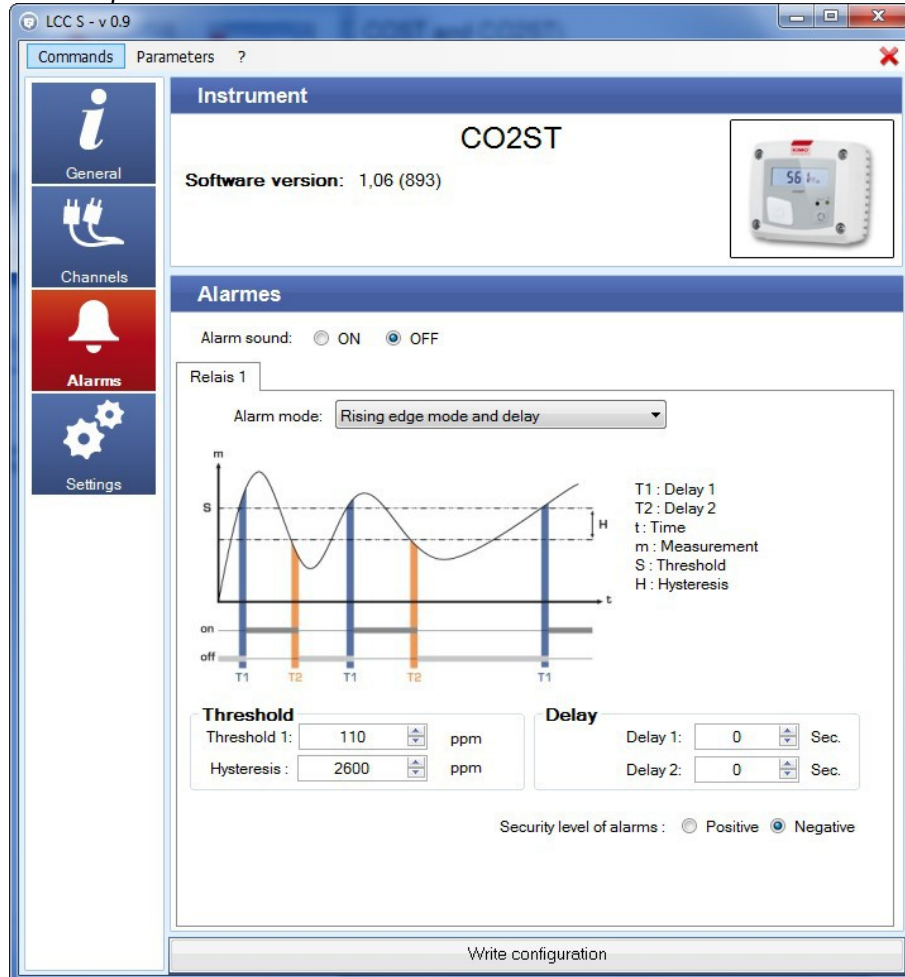
- Click on **“Configuration”** tab.
- Attribute **“Module”**, **“Probe 1”** or **“Probe 2”** for each available channel.
 - Select **“None”** to attribute nothing to the channel.
- Then attribute a unit for each available channel.
- Click on **“Write configuration”** at the bottom of the window to send the modifications to the transmitter.

8. Set the alarms (monostats and class 310)

This part is for the monostats only (PST, HST, TST, COST and CO2ST) and the class 310 transmitters (C310, CPE310-S and CA310).

8.1 Monostats

- Click on “Alarm” button.
The following window opens.



It is possible to activate or deactivate an alarm sound during an alarm condition :

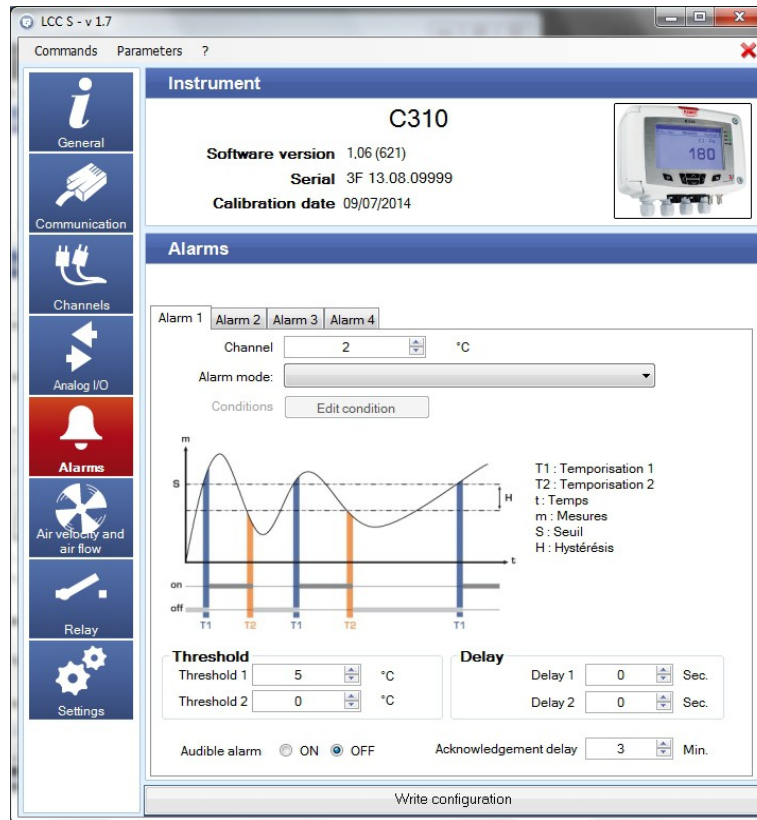
- Select “ON” to activate the alarm sound or “OFF” to deactivate it in front of “Alarm sound”.
- Select in the drop-down list the alarm mode between :
 - no alarm
 - “Rising edge mode and delay”
 - “Falling edge mode and delay”
 - “Control (threshold 1, threshold 2 and delay)”
- Set the values for the threshold 1, the hysteresis and delays 1 and 2 for the “Rising edge and delay” and “Falling edge and delay” modes.

OR

- Set the thresholds 1 and 2 and the delays 1 and 2 for the “Control (threshold 1, threshold 2 and delay)” mode.
- Click on “Write configuration” button on the bottom of the window to send the modifications to the transmitter.

8.2 Class 310 transmitter

- Click on “ **Alarms** ” button.
The following window opens.



- Click on the tab of the required alarm (Alarm 1, Alarm 2, Alarm 3, Alarm 4).
It is possible to activate or deactivate an alarm sound during an alarm condition.
- Select “**ON**” to activate the alarm sound or “**OFF**” to deactivate in front of “**Audible alarm**”.
- Select in the drop-down list the alarm mode between:
 - **No alarm**
 - **Rising edge mode and delay**
 - **Falling edge mode and delay**
 - **Control (Threshold 1, Threshold 2 and delay)**
 - **Sensor state**

If the mode “**Rising edge mode and delay**”, “**Falling edge mode and delay**” or “**Control (Threshold 1, Threshold 2 and delay)**” is selected :

- Select the channel on which the alarm will be active.
- Adjust the values of the threshold 1, the hysteresis and the delay 1 and 2 for the modes “Control (Threshold 1, Threshold 2 and delay)”.
- Click on “**Write configuration**” to send the modifications to the transmitter.

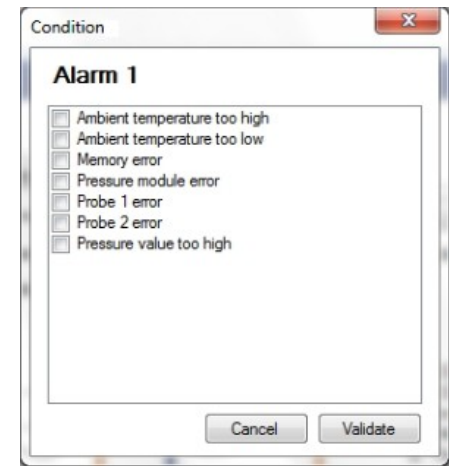
If the “**Sensor state**” is selected :

- Select the channel on which the alarm will be active.
- Click on “**Edit conditions**”.
- The window of alarm conditions opens.
- Tick the required conditions then click on “**Validate**”.



It is possible to tick several alarm conditions.

- Click on “**Write configuration**” button to send the modifications to the transmitter.

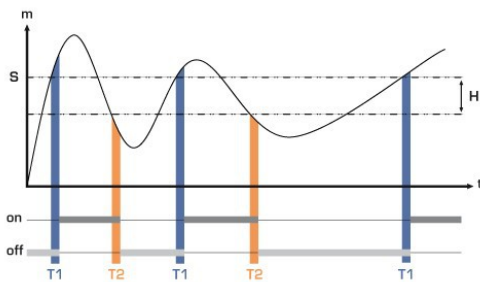


For all class 310 transmitters :

- Select “**ON**” or “**OFF**” to activate or not the audible alarm : if « **ON** » is selected, a sound will be heard as soon as the transmitter is in alarm state.
- Select the alarm acknowledgement duration between 0 and 60 minutes : the audible alarm, if it is activated, turns off and the displayed value blinks during the acknowledgement duration (from 0 to 60 minutes). At the end of the acknowledgement duration, if the transmitter is still in alarm state, the audible alarm is reactivated.

8.3 Details of the alarm modes

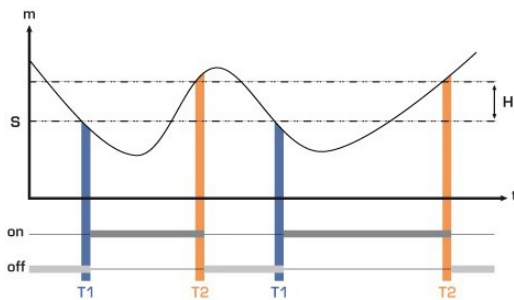
Rising edge



Measurement (m) > Threshold (S) during the time-delay T1 → alarm activation.

Measurement (m) < Threshold (S) - Hysteresis (H) during the time-delay T2 → Alarm deactivation

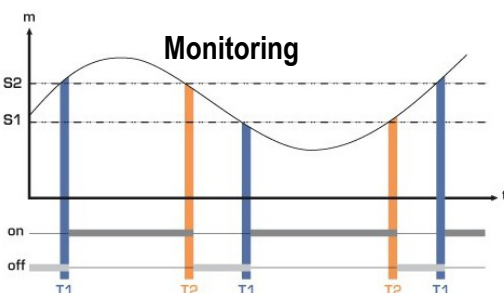
Falling edge



Measurement (m) < Threshold (S) during time-delay T1 → Alarm activation

Measurement (m) > Threshold (S) + Hysteresis (H) during time-delay T2 → Alarm deactivation

Monitoring



The alarm goes off when the measurement is outside the low and high thresholds.

9. Set the inputs and outputs (classes 110, 210 and 310)

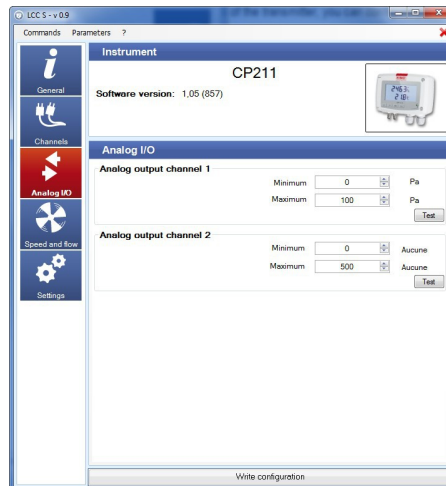
With this function, it is possible to modify the outputs ranges of the transmitter, **you can configure your own intermediary ranges.**



The configuration of the inputs and outputs is for classes 110, 210 and 310 transmitters only.

9.1 Set the inputs and outputs for the classes 110 and 210 transmitters

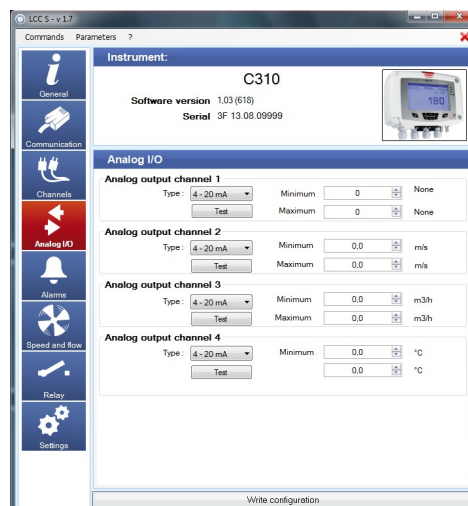
- Click on “**Analog I/O**” button.
The following window opens.



- Enter the minimum and the maximum for each analogue output.
- Click on “**Write configuration**” button on the bottom of the window to send the modifications to the transmitter.

9.2 Set the inputs and outputs for the class 310 transmitter

- Click on “**Analog I/O**” button.
The following window opens.



- Select the type of output : 4-20 mA, 0-20 mA, 0-10 V, 0-5 V.
- Adjust the minimum and the maximum for each analog output.
- Click on “**Write configuration**” at the bottom of the window to send the modifications to the transmitter.



The inputs are only available on the CA310 with the MVA module.

9.3 Test the analog outputs (class 210)

Once the configuration of outputs and inputs has been performed, it is possible to test them with an external measurement device.

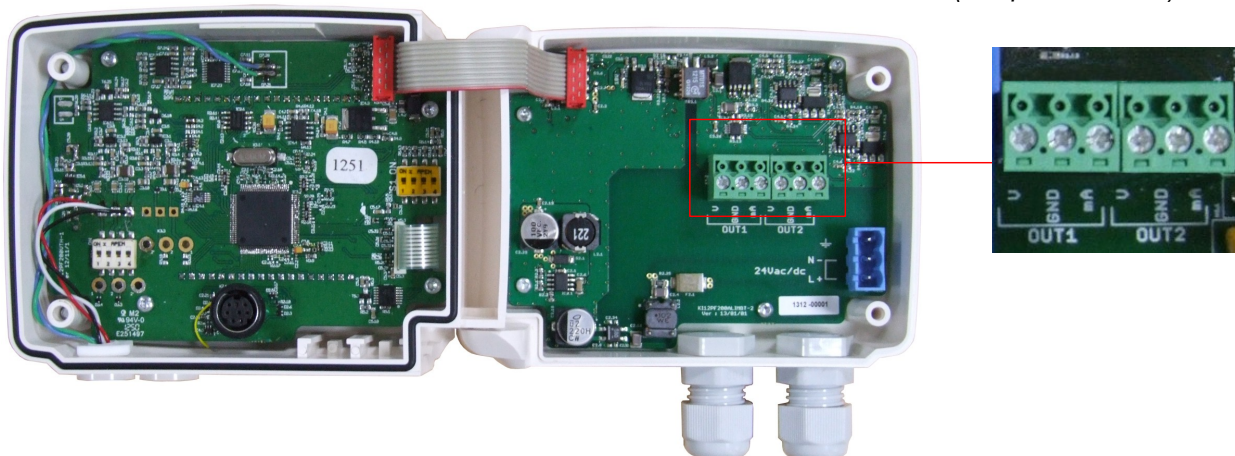
i This test is available for the class 210 transmitters only.

This test allows to check on a multimeter, a regulator or an automate, the proper functioning of the outputs. The transmitter will generate a voltage (between 0 and 10 V) or a current (between 0 and 20 mA) according the setting of the electronic board switch.

- For a 0-10 V output signal, the transmitter will generate 0 – 5 or 10 V.
- For a 0-5 V output signal, the transmitter will generate 0 – 2.5 or 5 V.
- For a 4-20 mA output signal, the transmitter will generate 4 – 12 or 20 mA.
- For a 0-20 mA output signal, the transmitter will generate 0 – 10 or 20 mA.

i Before trying to perform an outputs diagnostic, check that connections and configurations of the transmitter are operational to avoid any damage on the transmitter and on the external device.

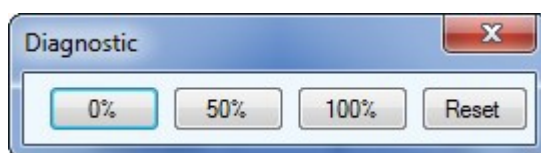
- Select a channel for the outputs diagnostic.
OUT1 or OUT2, indicated on the electronic board above the terminal blocks (see photos above).



- Connect a measurement device on the channel 1 or 2.

Once the connection is done, it is possible to diagnose the analogue outputs on several checkpoints :

- Click on “**Test**” button of the “Analog I/O” window.
The following window opens.



- Click on 0 %, 50 %, 100 % or Reset.

Diagnostic button	Generation according to the output signal			
	0-10 V	0-5 V	0-20 mA	4-20 mA
Reset	Back to measurement mode			
0 %	0 V	0 V	0 mA	4 mA
50 %	5 V	2.5 V	10 mA	12 mA
100 %	10 V	5 V	20 mA	20 mA

10. Set the measurement in air velocity and airflow

This setting only concerns the CP210 and CTV210 transmitters and the class 310 transmitters with a pressure module or a velocity probe available in option.

10.1 Select the measuring means (CP210 with SQR3 option and C310/CA310 with pressure module and SQR3 option)


The calculation of air velocity being calculated from the pressure (for a CP 210 transmitter and a class 310 transmitter) and from a differential pressure element, the used differential pressure element must be selected to perform the measurements. The coefficient of this element and the air velocity correction coefficient must be then entered.

- Press “Speed and flow” button.
The following window opens.

The screenshot shows the 'Speed and flow' configuration window for instrument CP211. The 'Measurement' section is active, showing the 'Measuring means' dropdown set to 'Coefficient of the sensing elements (Cm)'. The 'Air velocity correction coefficient (Cc)' is set to 1,000 and the 'Coefficient of the sensing elements (Cm)' is set to 0,0000. The 'Compensation' section shows 'Fixed temperature compensation (T comp)' set to 20 °C. The 'Dimensions' section shows 'Type section' set to 'Rectangular', 'Unit' set to 'mm', 'Length' set to 100 mm, 'Width' set to 100 mm, 'Diameter' set to 100 mm, 'Pressure unit for Cd calculation' set to 'Pa', and 'Flow coefficient (Cd)' set to 10,00. A formula for air velocity calculation is displayed:
$$V = C_M \sqrt{\frac{2 \Delta P}{P_0 \left(\frac{\theta}{287,1 \times (\theta + 273,15)} \right)}}$$

In “Measurement” part :

- Select the measuring means between :
 - Pitot L
 - Pitot S
 - Debimo
 - Coefficient of the sensing element (Cm)
- Enter the air velocity correction coefficient (Cc) if needed.
This coefficient must be between 0.0000 and 9.9999.
- If “Coefficient of the sensing element (Cm)” has been selected as measuring means, enter its coefficient.

 According to the selected type of section, the air velocity calculation formula is indicated in “Measurement” part. Scroll your mouse over it to have more information about the formula.

10.2 Set the temperature compensation (CP210, C310 and CA310)

It is possible to modify the temperature compensation value. Indeed, the air velocity and the airflow measured with a Pitot tube and/or Debimo blades (or with any other differential probe) depends on the operating temperature. Therefore, it is necessary to enter the operating temperature in order to get more coherent results.

In “**Compensation**” part :

- Select the unit (°C or °F)
- Enter the temperature compensation value.

10.3 Set the type of section (CP210, CTV210, C310 and CA310)

In “**Dimensions**” part of the “**Speed and flow**” panel :

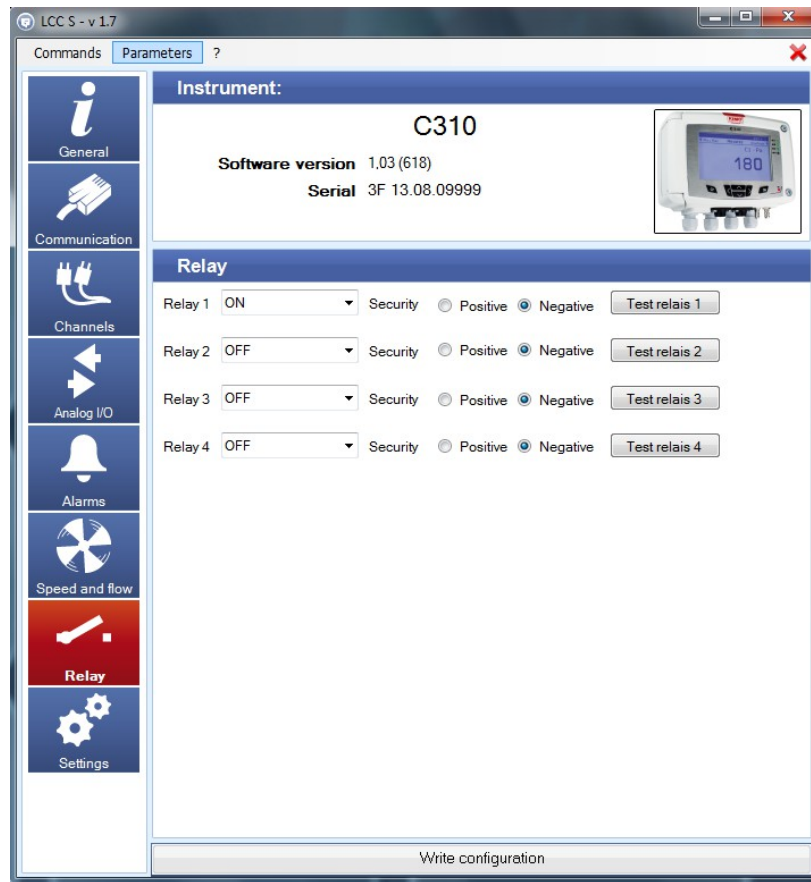
- Select the type of section : circular, rectangular or flow coefficient.
- Select the unit for a rectangular section : mm or inch
- Enter the dimensions :
 - Length and width for a rectangular section.
 - Diameter for a circular section.

OR

- Enter the Cd value for a flow coefficient.
- Click on “**Write configuration**” button on the bottom of the window to send the modifications to the transmitter.

11. Configure the relays (C310 and CA310)

The relay outputs are, by default, in negative security: the relays is energized during an alarm condition. Via the software, it is possible to configure the relays in positive security: the relay is deenergized during an alarm condition or a power cut.



- Select “ON”, “OFF” or “Alarm 1, 2, 3, 4” in the list of the required relay.
 - “ON” is selected: the relay is permanently activated.
 - “OFF” is selected: the relay is deactivated.
 - “Alarm 1, 2, 3 or 4” is selected: the relay triggering is assigned to an alarm previously configured.
- Select “Positive” or “Negative”.



To activate the relay in function of alarms, these latter must be fully configured.

To make a relays test :

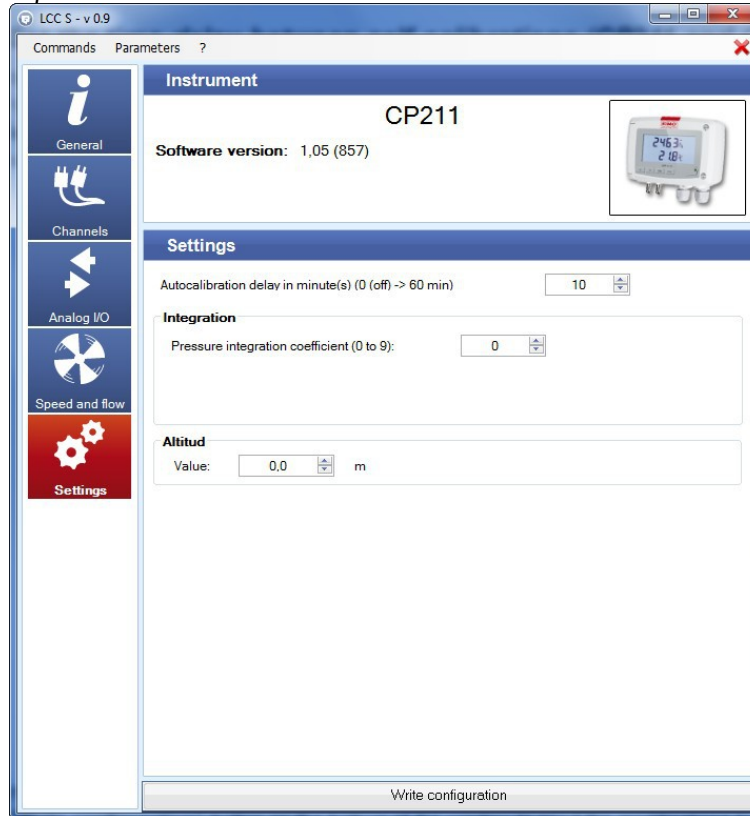
- Click on “Relay test 1, 2, 3 or 4”: the relay switch then returns to its normal state after 1 second.

12. Others settings (class 210 transmitter)

12.1 Set the time-delay between self-calibrations (CP211 and CP212)

For pressure transmitters having a self-calibration solenoid valve (CP 211 and CP 212), it is possible to set an interval between two self-calibrations.

- Press “**Settings**” button.
The following window opens.



- Set the time-delay in minute from 0 (off, no time-delay) to 60 minutes.
- Click on “**Write configuration**” button on the bottom of the window to send the modifications to the transmitter.

12.2 Pressure measurement integration (CP210 and CTV210)

The pressure measurement element is very sensitive and reacts to pressure changes. When making measurements in unstable air movement conditions, the pressure measurement may fluctuate. The integration coefficient (from 0 to 9) makes an average of the measurements ; this helps to avoid any excessive variations and guarantees a stable measurement.

New displayed value = $(((10 - \text{Coef.}) \times \text{New value}) + (\text{Coef.} \times \text{Old value})) / 10$

Example : CP212 (0-1000 Pa) – First measurement : 120 Pa – New measurement : 125 Pa

The pressure source is stable, the user applies a low integration. Integration : 1, maximum variation allowed ± 10 Pa. The variation is less than 10 Pa, we apply the integration calculation formula.

Next measurement displayed : $((9 \times 125) + (1 \times 120)) / 10 = 124.5$ i.e 124 Pa. If the new value had been 131 Pa, the next displayed value would have been 100% of the new value, i.e 131 Pa.

Still in the “**Settings**” panel :

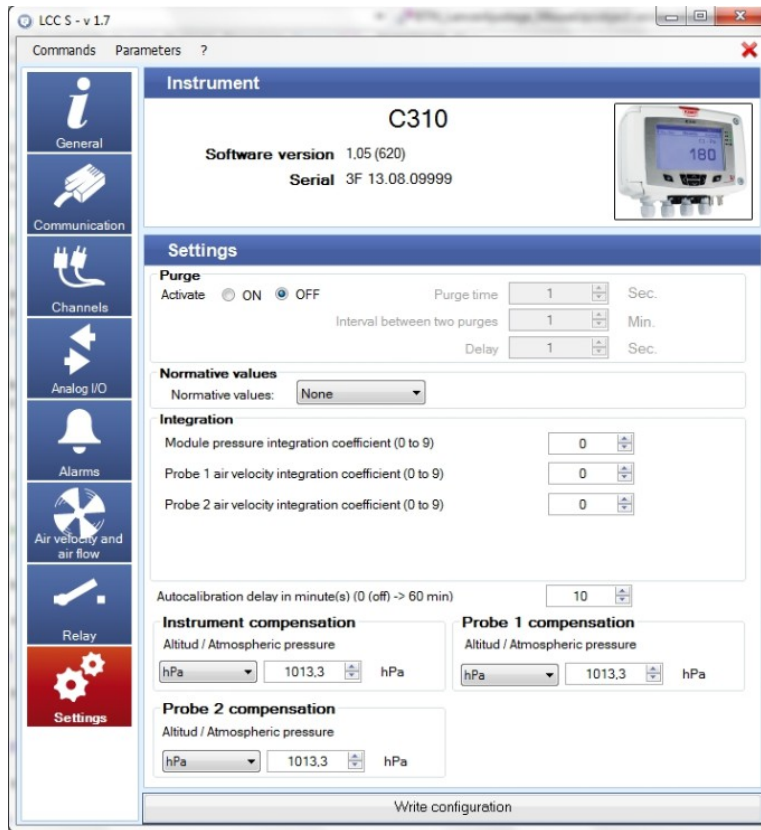
- Set the integration value between 0 and 9 with :
 - **Coefficient 0** : no integration, important fluctuation of the displayed measurement, fast response time.
 - **Coefficient 9** : maximum integration, more stable reading, slowest response time.
- Click on “**Write configuration**” button on the bottom of the window to send the modifications to the transmitter.

13. Others settings (class 310 transmitter)

14. Adjust the purging time

The purging mode allows to freeze the measurement in the display, block the analog outputs and activate the relay 1 in order to command a collecting system of an aeraulic network and activate the relay 2 in order to isolate the transmitter.

- Click on **“Settings”** button.
The following window opens.



In the **“Purge”** part :

- Select **“ON”** to activate the Purging mode.
- Adjust the purging time between 0 and 100 seconds.
- Adjust the interval between two purges between 0 and 100 minutes.
- Adjust the delay between 0 and 100 seconds.
- Click on **“Write configuration”** at the bottom of the window to send the modifications to the transmitter.

Purge	
Activate	<input checked="" type="radio"/> ON <input type="radio"/> OFF
Purge time	10 Sec.
Interval between two purges	1 Min.
Delay	1 Sec.

15. Select a normative value

It is possible to select a standard, which allows to bring back the measured values to the measured values in normal environmental conditions.

In the **“Normative values”** part :

- Select in the drop-down list :
 - DIN1343
 - ISO2533
- Click on **“Write configuration”** button at the bottom of the window to send the modifications to the transmitter.

Normative values	
Normative values:	DIN1343


16. Enter an integration

It is possible to enter an integration coefficient allowing to smooth the measurement and thus to avoid the untimely variations. The concerned settings are the pressure and the velocity.

Integration	
Module pressure integration coefficient (0 to 9)	<input type="text" value="0"/>
Probe 1 speed integration coefficient (0 to 9)	<input type="text" value="0"/>
Probe 2 speed integration coefficient (0 to 9)	<input type="text" value="0"/>


In the “**Integration**” part :

- Select the integration coefficient in pressure between 0 and 9. A pressure module must be connected to the transmitter.
- Select the integration coefficient in velocity between 0 and 9. A velocity probe must be connected to the location 1 or 2 of the transmitter.
- Click on “ **Write configuration** ” at the bottom of the window to send the modification to the transmitter.

 Coefficient 0 : no integration
Coefficient 9 : maximum integration, reading more stable.

17. Adjust the delay-time between 2 autozeros

- Enter a value between 0 and 60 minutes on the line “ **Delay-timen between 2 autozeros in minute(s) (from 0 to 60 min)** ”.
- Click on “ **Write configuration** ” at the bottom of the window to send the modifications to the transmitter.

 **Delay-time 0** : no auto-calibration.
Delay-time 60 : maximum deviation between 2 auto-calibrations (60 min).

18. Enter a compensation

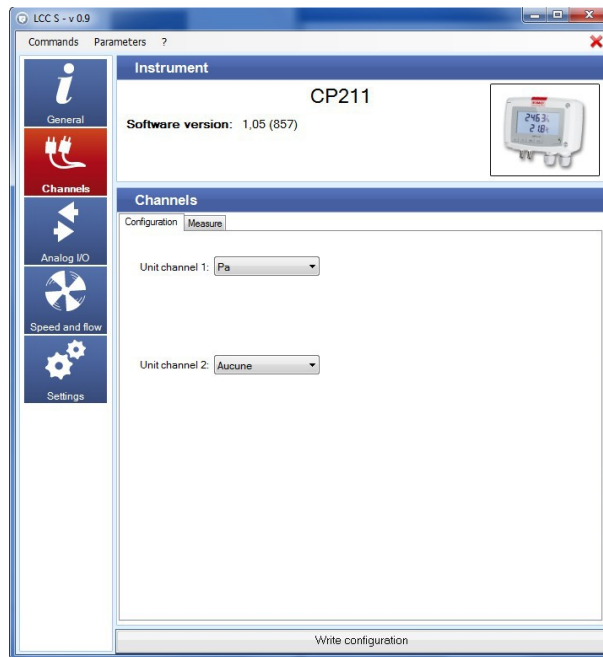
It is possible to enter a compensation in altitude or in atmospheric pressure on the device with the connected probes.

In the “ **Compensation device** ” part and/or “ **Compensation probe 1** ” and/or “ **Compensation probe 2** ” :

- Select the unit in pressure (hPa, mbar or mmHg) or in altitude (m).
- Enter a value of atmospheric pressure or altitude.
- Click on “ **Write configuration** ” at the bottom of the window to send the modification to the transmitter.

19. Read the measurements in real time

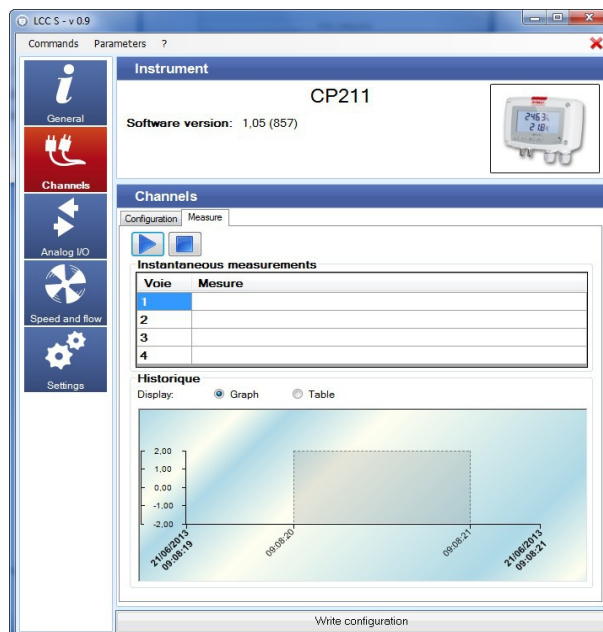
- Click on “**Channels**” button.
The following window opens.




This part has two tabs :

- “**Configuration**” tab
- “**Measure**” tab

- Click on “**Measure**” tab.
The following window opens.

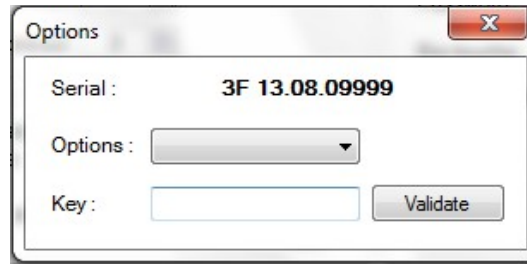


- Click on “**Play**” button  . *Measured values are displayed in front of the channel number.*
- Click on “**Graph**” or “**Table**” bullet in “**History**” part to select the visualization mode of the values.

20. Activate an option (Class 310 transmitters)

The class 310 transmitters have options that it is possible to activate thanks to the software. Before it is imperative to obtain to Kimo a key allowing to activate the required option.

- Click on “**Commands**” menu then on “**Options**”.



- Enter the key provided by the company.
- Click on “**Validate**” button.

The available options are as follows:

- **C 310** : Velocity/airflow (from the pressure measurement) – High resolution in pressure – Modbus – two additional analog outputs – Relay – Ethernet
- **CPE 310-S** : High resolution in pressure – Modbus -
- **CA 310** : Velocity/airflow (from the pressure measurement) – High resolution in pressure – Modbus - Ethernet

21. Update the software

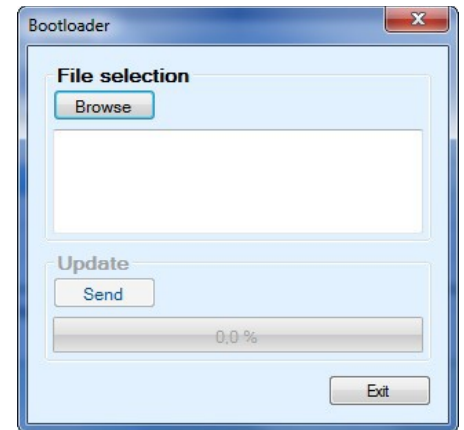
It is possible to update the firmware of the transmitter, it means the internal software that allows to the transmitter to work properly.

The transmitter is connected to the computer

- Click on **“Commands”**.
- Click on **“Bootloader”**.
- The “Bootloader” window opens.*
- Click on **“Browse”** button.
- Go to the location where the update file is.



This file is supplied by the after-sales service of Kimo.



22. Save and load a configuration

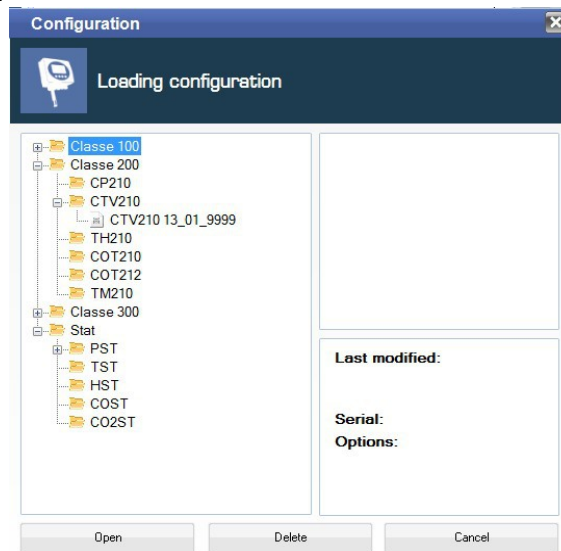
When a transmitter has been configured according to the desired criterion, it is possible to save this configuration and then apply it to another transmitter.

22.1 Save the configuration

- Click on **“Commands”** menu.
- Click on **“Save configuration”**.

22.2 Load a configuration

- Click on **“Commands”** menu.
- Click on **“Load configuration”**.
- The following window opens.*



- Click on **“+”** sign of the directory where the desired configuration is saved.
- Click on the configuration to load on the transmitter.
- Click on **“Open”** button.

A loading window opens with a progress bar opens and disappears when the configuration has been completely loaded on the transmitter.



Configuration files are saved in the computer in the following location :
C:\Users\Public\Documents\KIMO Instruments\LCC S\Configuration Appareil.

www.kimo.fr

EXPORT DEPARTMENT
Boulevard de Beaubourg - Emerainville - BP 48
77312 MARNE LA VALLEE CEDEX 2
Tel : + 33.1.60.06.69.25 - Fax : + 33.1.60.06.69.29

